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ABSTRACT

This report provides information on patterns of expense of students in the health professions and on the sources from which income was obtained, including any indebtedness incurred to finance the students' education. Findings indicate the proportion of married students in each class varied from 35 percent for freshmen to 65 percent for seniors. Slightly more than one half of all medical students came from families whose total annual income before taxes was less than \$15,000 in 1970. Marital status was the most important determinant in the amount of money needed by medical students for their annual expenses. Average annual expenses were \$4,295 for single students, while expenses for married students averaged \$6,919. Expenses for students in private medical schools were nearly \$1,200 higher than expenses for students in public schools. Nineteen percent of medical students total income was derived from their own earnings and savings and an equal proportion came from a variety of loan sources. Nearly 22,000 medical students reported loans totaling \$41.8 million for their professional education. The proportion of medical students who worked varied from 26 percent for single students to 44 percent for married students with one child. Sixty-five percent of all medical students had debts, which averaged \$4,289 in 1971. Statistical data and detailed findings are included in the report. (MJM)

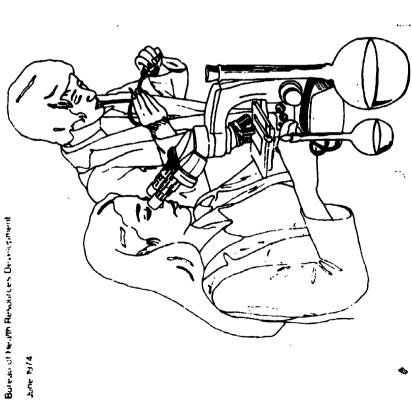
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DISCRIMINATION ON BASIS OF SEX PROHIBITED

Act to or for the benefit of any school of medicine, osteopathy, dentistry, veterinary medicine, optomsatisfactory to the Secretary that the school or training center will not discriminate on the basis of Comprehensive Health Manpower Training Act of from making a contract, grant, oan guarantee, or interest subsidy payment under Title VII of the PHS eury, pharmacy, podiatry, or public health or any training center for allied health personnel unless the Section 799A of the PHS Act, as amended by the application for such support contains assurances sex in the admission of individuals to its training 1971 (P.L. 92-157), prohibits the Secretary, HEW

Manpower Intelligence, which was a component of Work herein was initiated in the Division of the Eureau of Health Resources Development until March 1, 1974, when it was dissolved in conjunc tion with the reorganization of the Bureau

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medicine, osteonathy, dentistry, optometry, pharmacy, podiatry, and veterinary medicine financed their This report is based on a survey sponsored by the Bureau of Health Manpow : Education (now the Bureau of Health Resources Devel-soment) to determine how students in the health professions of educations during the 1970-71 school year. The purpose of this nationwide survey was to provide information on patierns of expenses of students and on the sources from which income was obtained including any indebtedness incurred to finance the students' educations The survey was made by a private research organization, under contract, in cooperation with various professional schools, the Association of American Medical Colleges, the American Osteopathic Association, Colleges of Pharmacy, the American Association of Colleges of Podiatric Medicine, and the American Service, the first in 1965 and the second in 1970. This report presents detailed findings for medical and osteopathic students from the 1971 Survey and is similar in content to the reports based on the 1964 and 1968 surveys. It was prepared by Anna R. Crocker of the Division of Manpower Intelligence, under the the American Dental Association, the American Optometric Association, the American Association of Veterinary Medical Association. A summary report, "How Health Professions Students Finance Their Education," has been published as DHEW Publication No. (HRA) 74-13. Two similar reports on earlier surveys covering only medical and osteopathic students have also been published by the U.S. Public Health general direction of Howard V. Stambler, Assistant Director for Manpower and Program Analysis

WAhybrand

William A. Lybrand, Ph.D.

Division of Manpower Intelligence

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During the 1970'31 academic year a survey of stakents in the professional schools of incelleine, esteepaths, Jennstry, optonictry, pharmacy, pediatry, and vetermary medicine was conducted under the ducation), Division of Manpower Intelligence, in cooperation with the professional school organizations of these disciplines. The survey was designed to find out how stadents in these schools finance their the Health Professions I ducational Assistance Act. Bus report describes detailed sursey findings concerning sponsorship of the Bureau of Health Researces Development, then the Bureau of Health Manpower professional education, and to what extent they have used foun and scholarship tunds made available under medical and estergrathic students the Health Professions Laurational Assistance Act of 1965 (Public Law 88-129), was enacted on September 24, 1963, adding a new Part Cor Title VII of the Public Health Service Agr, and authorizing a iong term_e fow interest, foan program for students of medicine, osteopathy, and dentistry, Subsequent egislation extended the program to students of optometry, pharmacy, podiatry, and veterinary medicine.

The Health Professions Federational Assistance Amendments of 1965 (Public Law 89-290), were 1964, the first money was available for the academic year 1964-65,

Although the Health Professions I ducational Assistance Act of 1963 authorized funds for Uscal Year

sharmacy, podiatry, and optometry. The program was extended by subsequent legislation to include Assistance Act of 1963, or the Health Professions Educational Assistance Amendments of 1965, will be enacted on October 22, 1905, adding a new Part is to Intle VII of the Public Health Service Act. This new egislation authorized a program of scholarship grants for students of medicine, osteopathy, dentistry, students of veterinary medicine. (In the remain 1-4 of this report, the Health Professions Educational referred to simply as HPLAA.

establishment of student loan funds in participating public or other nonprofit schools of medicine, More specifically, Part C, Fitle VII, of the Public Health Service Act, as amended, authorized the Fund method, or (3) both methods. Under the Federal Capital Contribution method, schools matched the usteupathy, dentistry, pharmacy, podiatry, and veterinary medicine, located in a State, the District-of loan funds, authorized under HPEAA by (1) the Federal Capital Contribution method, (2) the Revolving award with \$1.00 of non-Federal funds for every \$9.00 of Federal funds. Schools utilizing the revolving Columbia, Puerto Rico, or the Virgin Islands. In Liscal Year 1968, medical schools capitalized their student fund method borrowed directly from the Federal Government. These loans, repayable to the Government

over a period of 20 years, required no matching funds. Administration of the funds is the responsibility of

Survey Design

schools. I rom the total of 101 medical schools, a sample consisting of one-out of every three schools, 1971, to a randomly selected sample of 3,290 medical students, or 25 percent of the students enrolled in The 1971 survey basically utilized a sample of both health professional schools and students in those stratified by geographic division and type of control, was selected. Questionnaires were mailed in January these schools. All of the 7 ostcopathic colleges were included in the survey, and questionnaires were mailed to a fifty percent sample of students enrolled in these schools (1,062 students).

response rate from students in individual medical schools ranged from 50 percent to 100 percent. In 15 of percent of those sent questionnaires) and 919 by osteopathic students (87 percent). Variation in the A total of 3,712 questionnaires was returned by respondent students: 2,793 by medical students (85 the 34 medical schools in the sample, the rate of response was between 86 percent and 90 percent. Response rates for the individual osteopathic schools ranged from 78 percent to 100 percent.



both medical and osteopathic schools than that for students in other classes, duplicating a finding in both the 1964 and 1968 surveys. However, the differences between the response rates from freshmen and from other students were less in 1971 than in previous years.

Table I
DISTRIBUTION OF MI DICAL AND
OSTEOPATHIC SCHOOLS BY
PERCENT OF RETURNS

2 <u>2</u>	Percent of returns	Number of medical schools in sample	Number of oxteopathic schools
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Table 2 COMPLIENESS OF RETURNS FOR LACIFICASS

Medical schools

osteopathic school class	3cademic year 1970-71 ¹	Ouestion- naires mailed	Ouestion- naires "returned	Percent
All claves	40.181	3,290	2,793	88
Freshman	11,367	893	789	æ \$0
Sophomore	10.265	826	684	æ
Junior	9.657	×1.5	697	×.
Senica	8.892 2	152	623	Se
		Osteopathic schools	whools	
All classes	2,151	1.062	424	**
l reshman	. 623	30.	274	96
Sophomore	\$55	X75	238	%
Junior	498	249	223	96
Senior	475	232	189	₹

of their class on that school, and off the corrected data of the schools in the sample were inflated to per exacted sequences in each medical school class were infaited to represent the actual emolithent courses of the law data to approximate national encolineral concessars achieved in two basic steps be a sent the action effectively of all schools in each generaphy. By som of the country

It should be noted that schools with predefinition's black or predominantly termae circulturals were to describe an the support Consequence of the fooder stood extress canton of the effectation and asc ed surver tradities for Blacks of women for themene, shall defectorics between manifers should be considwith cautors.



PART 1



Characteristics

The proportion of married students in each class satied from 35 percent for freshmen to 65 percent for freshmen to 65 percent for seniors. Slightly more than one-half of all medical students came from families whose total annual income before taxes was less than \$15,000 in 1970. However, the median income of \$14,627 for medical students' families was considerably greater than the median income of \$9,867 for all families in the United States In general, medical students came from families that ranked above the national levels in income, education, and occu pation. Although 38 percent of the total population of the United States lived in places of less than 5,000 population, only 18 percent of all medical students lived in such places.

Annual Expenses

Marital status was the most important determinant in the amount of money needed by medical students for their annual expenses. Average annual

expenses were \$4,295 for single students, while expenses for married students averaged \$6,919

I spenses for students in private medical schools were, on the average, nearly \$1,200 higher than expenses for students in the public schools.

Tuition, fees, books, and other school expenses accounted for 39 percent of the total expenses reported by students in private medical schools and 26 percent of the expenses of students in the public schools. Forty-three percent of the total expenses of students in the Public medical schools, was for board and lodging, compared with 36 percent of total expenses for students in private medical schools.

Source of Income

Nineteen percent of medical students' total income was derived from their own earnings and savings and an equal proportion came from a variety of loan sources. Spouse's earnings accounted for 30 percent of total income and gifts



and or foans from family for 20 percent, federal Health Professions scholarships contributed 3 percent of total medical students' income, and research grants, State government scholarships, and other non-refundable funds accounted for the remaining's percent.

Sixty seven percent of all medical students reported some income from their own carnings and savings, and 54 percent reported re eiving financial help from their parents. Among married students, the proportion with income from spouse's carnings ranged from 86 percent for these with no children to only 44 percent for those with two or more children.

Medical students' income from their own earnings and savings averaged \$1,578; the cerage contribution from family amounted to \$2,249. Married students reported an average of \$4,540 from spouse's earnings.

Nearly 22,000 medical students reported loans totaling \$41.8 million for their professional education. One out of every four medical students

reported a foan from HPLAA fands; one out of eight students reported loans rom "other and unspecified sources," and one out of ten reported receiving a loan from the medical School or university. One out of every twelve students had borrowed from a private bank.

The average loan from 11Pf AA funds amounted to \$1,084, a smaller average amount than from any other loan source.

Scholarships or non-retuindable grants were reported by nearly 19,000 medical students, and the average amount reported was \$1,199

Work Experience

The proportion of medical students who worked varied from 26 percent for sin le students to 44 percent for married students with one Twenty percent of the married students with one child worked from 20 to 29 hours per week.

One out of every eleven medical students reported income averaging \$845 from Federally-funded research or training grants.



Ficits and Surpluses

limity seven percent of all medical students te ported detaits for the 1970-71 school year. While the average amount of defact was \$1,511 for all students, the average was \$1,077 for single students and over \$2,000 for married students in each marrial status category.

The highest proportion of students with surpluses and the largest average amount of surplus acre for married seniors with no children. Two-thirds of these medical students reported surpluses averaging \$2,732. The smallest proportion of students with surpluses was for single treshmen, with three out of ten reporting surpluses which averaged \$543.

Indebtedness

Sixty-live percent of all medical students had debts, which averaged \$4,289 in 1971. As would be expected, the highest proportion of studerts with debts and the largest average debt were for married students with two or more children. Eighty-eight percent of these students reported debts, averaging \$7,007. Senior medical students agad debts, averaging \$5,504.

The relationship between income and expenses was computed by subtracting total expenses incurred or expected in the year beginning July 1970 and ending June 1971 from total income available or expected during the same period.

PART 2



Characteristics of Medical Students

In 1971, 47 percent of all medical students were married. This represents an increase of about 15 percent over the proportion o-medical students who reported themselves as married at the time of the 1968 and 1964 surveys.

Among freshmen medical students, thirty lour percent were married at the time of the 1971 survey, as compared with only 22 percent in the 1968 survey. While the proportion of married students in each medical school class was greater in 1971 than in 1968 or in 1964, the largest percentage increase occurred among first year students.

Lable 4
DESTRIBUTION OF MEDICAL STEDENTS
BY MARITAL STATUS AND MEDICAL SCHOOL CLASS

	II.			*	•
Variate tatus	Charce	Freshman	Sophomore	Junior	Senio:
Number of students	40,181	11.367	10.265	4.657	8.592
All students	127	100.	100.	100,	.100;
Single	7.	. 88	65	? T	3.5
Married, no children	7	<i>~</i> ;	31	39	47
Marred, one child	=	7	7	÷	13
Married, two or more children	~,	٠٠ .	m	m	\$

Includes students in 10th year of whool.



Includes data for students who were widowed, disorced, or separated

comparable proportion of stu-The proportion of married students in each class in public medical schools exceeded the dents in private medical schools.

DISTRIBUTION OF MEDICAL STUDENTS BY MARITAL STATUS AND CONTROL OF MEDICAL SCHOOL Table 4

Private whools

Public schools

All whools

Marital stands

Number of students	40,181	24,338	15,843
All students	201	1.001	2001
Single	53	7	59
l, no children	¥	36	32
Marned, one child	9	1	9
2	~	~	~
Includes data for students who were widowed, disysteed, or separated.	widowed,	٠	•

MEDICAL STUDENTS WHO WERE MARRIED. COMPARISON OF DISTRIBUTION OF BY MEDICAL SCHOOL CLASS AND Table 5

CONTROL OF MEDICAL SCHOOL

1761 bns 1831

	•	- Cix			-; 51	
Medical school class	All	Public schools	i rivate chools	All K'hooly	Public schools	Private schools
Fotal	?-I+	4.50	36.	47.2	\$13	4 5
reshman	22	36	æ	35	38	%
Sophomore	36	40	31	4	45	콨
unior	20	Z	4	\$1	57	43
Senior	99	6.5	\$\$	65	67	63

1 Source: U.S. Department of Health, Education, and Welfare, Public Health Service. How Medical Students Finance Their Education, June 1965, PHS Publication No. 1336-1. U.S. Government Printing Office, Washington, D.C.

The proportion of married students ranged from 38 percent in New England and the Pacific Division to 57 percent in the East South Central Division. In five of the nine Divisions, more than one-half of the medical students were married

PROPORTION OF MEDICAL STUDENTS WHO WERE MARRIED. Table 6

AND CONTROL OF MEDICAL SCHOOL BY GEOGRAPHIC DIVISION

Geographic division	All	Public schools	Private
Total	47%	517;	410
New England	æ.	69	3.5
Middle Atlantic	4 0	40	?
South Atlantic	55	3	4.
Fast South Central	23	Šć	. 22
West South Central	55	53	rı
East North Central	45	41	4
West North Central	33	26	43
Mountain	<u>\$1</u>	5.	ြ
Pacific	38	9	33

The States with medical schools included in each Division are: New England-Connecticut, Massachusetts, New Hampshire, Rhode Island, Vermont, inginia (also District of Columbia and Puerto Rico; and, North Carolina, South Carolina, Virginia, West ndiana, Michigan, Ohio, Wisconsin; West North Hiddle Atlantic - New Jersey, New York, Pennsylvania: South Atlantic Florida, Georgia, Maryfennessee; West South Central Arkansas, Louisiana, Oklahoma. Texas: East North Central Illinois. Arizona, Colorado, New Mexico, Utah, Pacific-East South Central - Alabama, Kentucky, Mississippi Minnesota, Missouri Achraska, North Dakota, South Dakota; Mountain alifornia, Hawaii, Oregon, Washington. entral-lowa, Kansas,

There are no private medical schools in the Two private medical schools in the West South Central Division were not selected in the sample. Mountain Division.

Lamily Income

By the stady, metric students were assed to egonde the nest estimate of their parents, net personal the calculatives for the calculatives for the calculatives for the calculatives for the parents' combined across annual in other a circaparison of included students emolic to 1971 and 1968 by turnly memory cannot be made to in the two surveys.

A comparison of the family encome of students in 1974 by medical school class reveals that about 7 percent of the students in each class came from families with net income below \$5,000. One out of every four medical students came from a family whose net income was between \$10,000 and \$15,000. Whereas 24 percent of the juniors and 22 percent of the sophomores and seniors came from families with income of \$25,000 or more, only 19 percent of the treshmen carle from families with neomes in the cagetons.

Lible Toylor Milbers SILDENISBY FAMILY IS OWED INTEREST FAMILY IS OWED IN THE SECTION OF ANY MILBER AT SCHOOL (1988)

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Based on students who supplied data on tamily inconsi-	aiddus ou	nt nu rirt t	ally an only		
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dve	ONTRO	AND CONTROL OF MIDICAL SCHOOL	L SCHOO.)	•

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510,000 514,999		ři	χ	. 21
\$15,000 \$19,999	•	51	16	. 2.1
520,000 524,999		=		
\$25,000 or more		SI.	17.	67.
Median income	<u>.</u>	\$14.627	\$13.888	\$16.530

Based on students who supplied data on family income.



ERIC Ocupations

occupations Litteen percent of the lathers of medical percent of the lathers of medical students in both students were physicians and an additional s mandy dentistry and pharmacy. (An additional 28 percent worked in other medical professions, pur

public, and private schools worked in other protessional occupations.) Of all employed males 40 years old and over in the United States, about 13 percent were in occupations classified as "protessional and technical, medical and other health?"

FATHERS OF CPATION IN COMPARISON WITH OR CUPATIONAL DISTRIBUTION OF DEFERENCE OF MINE OF STREET STREET AND PRIVATE SOCIETIES I MPLOY UP MALLS BY LARSOUD AND OVER BY THE UNITED STATES Lattle !

	Meth.	Meth, al students' fathers	Lithers	l mplaced	
Ovenbation	- IN	Public	Pinata	males. 40 years old	
	4 64 7	shoots whools	, took	and ever, 1970 ¹	
lotal all occupations	801	35	100	. 901	

13 14 18 18 18 18 18 18 18	foral all occupations.	2	: =	2	2
, X 5 v y 5 e w • Y 5 v v 5 v v	Physician	<u> </u>	<u></u>	×	
発売など日本の 発売など日かな	Medical and other health worker	j.	£	7.	-
5 24 5 5 4 2	Other predessional and technical	×.	٠;	X	=
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ther 10 10 to 2		•	7	×	۲.
Unskilled worker of the 31	Cratten in Ailled worker	Ξ	=	9	; ;
Larmer, farm worker	Unskilled worker	=	۲-	,	₹.
	Larmer, farm worker	 .	✔.	_	£

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¹ Source: U.S. Department of Commerce, Social and Leonomic Statistics Administration, Bureau of the Census, Occupational Characteristics, 1970 Census of Population, PC(2), 7A.

2 Details may not add to total due to independent rounding.

fifteen percent of the employed mothers of medical students worked as physicians or other medical and health workers whereas only 5 percent of the employed females 40 years old or older in the United States worked in these occupations.

than the proportion of all emover who were clerical workers in family in which the mother did students whose mothers worked ployed women 40 years old and students' mothers who worked in ployed women 40 years old and The proportion of all medical n professional occupations other than in the health and medical fields, was nearly 3 times greater over in these occupations. However, the proportion of medical clerical occupations was very close to the percent of all em-1970. Fifty-seven percent of all medical students came from a not work outside of the home.

MOTHER'S OCCUPATION IN COMPARISON WITH OCCUPATIONAL DISTRIBUTION DISTRIBUTION OF MEDICAL STUDENTS IN PUBLICAND PRIVATE SCHOOLS BY OF EMPLOYED FEMALES 40 YEARS OLD AND OVER IN THE UNITED STATES Table 10

	Medical	Medical students, mothers who worked	mothers d	F.mployed
Occupation	i All x.hools	Publik schook	Private schools	40 years old
Lotal all occupations	1000	100%	1007	100:
Physician	-	. -	C1	-
Medical and other health worker	Er . 14	91	2	4
Other professional and technidal	^[4] 30	31	52	=
Owner, manager, proprietor	9	•	~	v.
Clencal	. 32	35	€.	30
Sales	9	Ś	۲-	90
Craftsman, skilled worker		~	C1	7
Unskilled worker	6		=	æ.
Farmer, farm worker	:		٤.	-

⁻ None.

1 Source: U.S. Department of Commerce, Social and Economic Statistics Administration, Bureau of the Census, Occupational Characteristics, 1970 Census of Population, PC(2) 7A.

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Noily Educational Level

in the United States had this or professional education beyond college. About 5 percent of all males 40 years old or older Thirty-five percent of all medical students in 1971 came from families where the father had gradamount of education (in 1970) In private medical schools, 40 percent of the students' while in the public schools 32 fathers had graduate or professional training beyond college, percent of the students' fathers had education beyond college.

medical students whose mothers pleted college, more than 4 times the proportion of all women 40 had graduate or professional edupleted college. The proportion of fighteen percent of all medical students came from a family in which the mother had comyears old or over who had comcation beyond college in 1971

DISTRIBUTION OF MEDICAL STUDENTS IN PUBLIC AND PRIVATE SCHOOLS BY EDUCATIONAL LEVEL OF FATHER IN COMPARISON WITH EDUCATIONAL LEVEL OF MALES 40 YEARS OLD AND OVER IN THE UNITED STATES Table 11

L'arted States	males 40 years old and over	: 001	38 23 23 6 6 6
thers	Private whools	100	-
Medical students' fathers	Pubbe F whools v	100.	2 ÷ 2 • 4 4 8
Medical	Ail	100:	* * 5 • 4 4 %
,	I ducational level	All levels	Lighth grade or less Some high school Completed high school Some college Completed college Graduate or professional

1 Source: U.S. Department of Commerce, Bureau of the Census, Detuited Characteristics, United States Summary, 1970 Census of Population, PC(11) D1.

2 Category not reported separately.

was 13 percent, or seven times .,,

that of actemates 40 years old or hone of students in pulvic and termics between the distribuprivate medical schools in Incre yere only miner difmathers educational level

Latus afrom Flexel 4 from S Vi gively 100 1, putth grade of 18 s	-		C Mich States
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Completed field without Campie 28	: <u>=</u>	. =	, 11
	x	4	.i 2
Completed college	<u>× 1</u>	<u> </u>	÷ r
	<u> </u>	<u>.</u>	* 1
Daniel U.S. Department of Commerce, Characteristics, United States Summary.		n, of the C	Barear, of the Census, Detuied



Interior of United States Summary, 1970 Chasas of Population, PC 15 A.3. every tive medical students came from a city having under Sylba p aprilation and only 19 percent fixed in cities or 5 htgorio or more. While one out of a population between 100,000 and 500,000, only one out of every eight persons in the United States a cies, and prior manages, and many the percent the home was significantly population of the beyon their place of letters to soo follower late a life the Source States as a whole others eight percent of the total population fixed in places of the distribution of the distudents, by second Property of which medical students into were table events awards among the several size safe south the transfer of the product of the Control States. Promptowing was maked a softeent from the distri-

Ined in a city of this size

100Hpt	Lotal United States population 1970	100	<u>=</u>	~	_		Æ.	
DISTRIBLTION OF MEDICAL STUDENTS BY SIZE OF FIONITIONN AND CONTROL OF MEDICAL SCHOOL	Pivate	100	۶.	7.	á	2	<u>\$</u>	areas of the Consult. Ass
1 able 15 DIC AL S	- 12 d	Š	<u>.</u>	7	Ē	Ž,	×	ושורירו
FION OF MEL	AE . School:	1:01	Ž	71	7	5	<u>~</u>	Source 1.2 Department of Commerce
DISTRIBL HOVILTON	Second to enertown		of mote	ten tent	44,944	200 7:	ı kw	La Dept.
	7. V. V.	Lotti	रंगात (भाग	100'Our	.). iiii:	S.000.	Than or less	3. m. \$

PART 3





Marital Status

As in previous studies of medical students' financing, marital status was found to be the most iniportant determinant in the amount of money needed by a medical student. Average expenses were \$6,919 for married medical students in 1971, while expenses for unmarried students averaged \$4,295. These amounts represent increases of 20-percent and 26 percent, respectively, over the 1968 average expenses of \$5,777 for married students and \$3,421 for single students.

TOTAL ANNUAL LINENSIS AND MARITAL STATUS DISTRIBUTION OF MUDICAL STUDY NISBY Lable 1-4

			Man	Marital status	
Fotal annual expenses	All students	Single	Married, no children	Married, one child	Marned. two or more children
Number of students	181,02	21,277.	13,786	1,768	1,350
All students !	ગન	001	:001	2,001	. 001
less than \$3,000	=	2			
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756'TV 000'T	07	ž,	71.	£!	×
5,000 55,000	2	<u>*</u>	×	30	17
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7,000 \$7,999	3	~1	×	<u>\$1</u>	ä
S 8,000 Sq. 999	5	^ C1	æ	=	=
\$10,000 or more	-	-	7	·	<u>.</u>

¹ Includes data for students who were widowed, disorced, or separated.



The medical schools selected in the sample for this survey did not include the schools having either a predominantly Black enrollment or a predominantly female enrollment. Consequently, survey findings for Black students and wonten students are based on information from dnly thuse female students and those Black students who were attending coeducational medical schools with predominantly. White enrollments, and may not be representative for women and Blacks in all schools. These findings are shown in Tables 15

Table 15

AVERAGE ANNUAL EXPENSES OF

MEDICAL STUDENTS BY
MARITAL STATUS AND SEX

AVERAGE ANNUAL EXPENSES OF MEDICAL STUDENTS BY MARITAL STATUS AND RACE

	both			:	ΗΥ		. "	
Marital status	X.Y.c.	Malc	Lemak	Mantal Matus	races	W PHIR	Black	CERT
[otal t	\$5.529	\$5.553	\$5,283	Number of Students	40,181	38.723	794	3
Single	4,295	4.269	4.494		•			
Married, no children	6.930	868.9	7,432	Total	\$5,529	\$5,529 \$5,532	\$6.579	S4.087
Married, one child	6.573	6.591	6,215					
Married, two or more children	7,774	7.815	5.964	Single	4.295	4.296	991.5	3.362
				Married, no children	6,930	6.935	7.878	5.876
1 lachdes students who were washaged divorced or	divorced, or	sparated.		Married, one child	6,573	6.542	6.693	;
				Married, two or more children	1,774	7.526	8,461	•

No responses from students in this category.

Includes students who were widowed, divorced, or separated.



r

Soital Status and Location and Control of Medical School

Because there are different proportions of medical students attending public and private schools and because living costs sary in different sections of the country, there is significant sariation from one part of the country to another in the average expenses of students The gap between the average expenses of students in private and public medical schools widened from about \$8'O in 1968 to nearly \$1,200 in 1971. The difference continues to be largely due to the higher tuition and fees in private schools, since the differences in gapenses for other items are relatively small

Expenses for male medical students ascraged \$5,553 in 1971, as compared with \$5,283 for temale average expenses than male students in those categories. These differences may be the result of sampling students, thosever, tennale students who were single or who were married with no children reported higher

As would be expected, married students with two or more children had the highest average expenses (\$7,774), and single students had the lowest (\$4,295). Both amounts were more than 20 percent higher The tables that tollow affustrate the impact of marital statús, location and control of medical school on the amounts expended by medical students

In all geographic divisions, average expenses were higher for students in private medical schools than in public sche. . Average expenses of students in private medical schools in 1971 ranged from \$5,534 in the Last South Central Division to \$6,699 in the South Atlantic Division. The lowest average expense for students in private medical schools in any Division exceeded the average expense for students in public medical schools in all Divisions except New England.

AVERAGE ANNUAL ENPENSES OF MEDICAL STUDENTS BY CONTROL OF MEDICAL STUDENTS BY CONTROL OF MEDICAL SCHOOL CHASS

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Control of inchal whool and matter status	No.	Lesbuan	Saphoniore Junio	Junto	Sentor
	30000	_68 T	\$5.262	95.879	\$6.254
Yın:	4.295	4,059	4.106	4.61.	1.631
Married, no children	0.4.6	050.9	6.665	7.01	7.288
Married, one, into	6,573	F 9% .	7.125	6.782	3/3
Married, two or more dublier.	7,774	7,847	8,305	4.205	6.60%
Public schools total	5,08.4	¥77 T	787.7	8.98.4	5.678
Anei	1,650	4.1+°	2.55.5	3,830	4.14
Maned, no chadren	6.445	6.122	6.00%	. h.9hb	6.4X4
Marned, one chie	6.251	125.4	6.701	6.350	6.39
Married, two or more children	6.980	3 X C	7.426.	7,05.5	6.04
Private whooly total i	6.242	92.93	X. 5. 8.	6.135	7.07
Single	5.135	2.014	C16.5.7	5,440	5.224
Married, no children	7.757	7.30	7.852	7,100	8.389
Married one child	7.616	0.400	x.203	K.165	7.380
Marred, two or more chaldren	K.423	7.895	8.853	9.07J	K65.7

I brindes data for students who were wilewed, divorced, or separated,

COMPARISON OF AVERAGE ANNUAL ENPENSES OF SENDENCES IN THE SENDENCES OF SENDENCES OF

161	757.97	4,630 2,27 6,784 6,884
1968	サノフサグ	1 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
7.67	. 11.3	2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Nanta state	<u></u>	Man 1 1 2 3 4 4 4 4 4 4 4 4 4

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AVERAGE ANNUAL ENPINSES OF MEDICAL STUDINTS BY CHOCRAPHIC DIVISION AND MARITAL STATUS

	1		Nah.	Mantal status		
Geographic diesion	All students ¹	Single	Married no children	Married one child	Married two or more children	
All divinents	95.5.89	\$ \$	>6,430	36.574	A77.7. 8	•
New Ingland	155.4	5.570	7.4%	7.800	9.181	
Middle Atlanta	5.583	4,534	7.024	466	10,140	
South Atlanta	5.405	4.647	7.179	4.156	7,639	
Last South Central	313	4.050	S, NKU	6,484	6,363	
West South Central	5.233	3,452	6.584	6.83	7,747	
Last North Central	5.702	4,239	7.4-13	N.027	2,086	
West North Central	5.180	3,813	6.52%	6.246	\$.328	
Nountain	4.543	2.946	6.299	4.750	6 .906	
Parth	£ 16.4	3,984	6.543	8,446	6.877	
•					`	

Includes data for students who were widowed, divorced, or separated.

See footnote at end of Table to tot States in each geographic division.



Fight 20
AVERAGE ANNUAL ENERGES OF MEDICAL STUDENTS BY GEOGRAPHIC DIVISION AND CONTROL OF MEDICAL SCHOOL

	•	Medical	Medical schools
, movement and and and	Au Hudent	Putoh	Proste
Midnishin	F. C. C.	\$5.064	25.064 \$6.242
New Impland	0.541	5.811	6.613
Widdle Atlantic	5.583	5.003	6.012
South Atlantic	5.905	5.501	5.644
Fast South Central	461.8	562.4	5.534
West South Centual	5.233	5.233	-•
Last North Central	5,702	5.262	S AX
West South Central	5.180	TXX.T	5.404
Mountain	645.4	4.543	
Parth	1.15° T	4.128	t. 333

See footnote at end of Table 6 for States in each geographic division.

Expenses for Various Items

\$1,000 for residents of the State. in which they were attending higher than the average for stuschools ranged from \$200 to medical school, and from \$200 to penses for tuition and fees aver-\$2,140 for non-residents. Tuition medical schools in 1971 averaged \$1,068 to \$2,620. (Only three tion for residents.) For students aged \$2,430, a figure 85 percent fents in public medical schools. Tuition and fees for first-year and fees for all students in public \$1,319. In private medical schools, students' expenses for untion and fees ranged from in private medical schools, exprivate schools cited a lower turstudents in public



The two private schools in the West SouthCentral Division were not selected in the sample

³ There are no possate medical schools in the Mountain Division,

the highest average school expenses (\$1,821 for tuition and fees) and the lowest average expenses in each of the other expenses of married students did not increase consistently with increase in family size, since the average expenses in family size, since the average expenses reported by married students with one child were lower in each expense category except the "all other" category than those for other married students.

Eighty-seven percent of the married medical students and fifty-eight percent of the unmarried students lived in apartments or houses outside school control. The average expenses reported by married students living in these apartments or houses were considerably higher than those reported by all other medical students. The highest average expenses (\$8,093) were reported by married students with two or

Table 21 AVERACE ANNUAL EXPENSES OF MEDICAL STUDENTS FOR VARIOUS ITEMS, BY CONTROL OF MEDICAL SCHOOL AND MARITAL STATUS

			Mari	Marital status	
Control of nedical school and expense item	All	Single	Married, no children	Married, one child	Marned, Iwo or more children
All schools: Total expenses	\$5,529	\$4,295	\$6,930	\$6,573	\$7.774
Acquire and maintenance of living quarters	1,738	857	1,715	1,597	1,70
Board	956	725 505	1,177	1,171	. 49,615
All Other	1,552	268	77	2,320	2,538
Public schools: Total expenses	5,064	3,650	6,445	6,251	980,9
School expenses	1,319	1,305	1,358	1,295	1,242
Lodging and maintenance of living quarters	1,247	839	1,637	1,533	1,887
Board	932	672	1,146	7217	1,684
All other A	1,566	834	2,304	2,699	. 2,163
Private schools: Total expenses	6,242	5,125	1,757		8,923
School expenses	2,430	2,489	2,401		2,362
Lodging and maintenance of living quarters	1,289	879	1.846	1,800	1,962
Board	991-	789	1.232		1817
All other	1,532	896	2,278		3,082
·					

children living in an aparticontrol, while the lowest average (\$2,631) was reported by unmarried students with living attangements categorized as other...

1 able 22	AVERAGE ANGUAL EXPLUSES OF MEDICAL STUDENTS FOR	VARIOUS HEMS, BY MARITAL STATUS AND MEDICAL SCHOOL CLASS
	AVERAG	VARIOUSINE

			Medical whool class	class	
Mantal status and expense item	All	Freshman	Sophomore	lunior	Senior
ingle: Total expenses	\$4,295	64.059	54.166	\$4,612	\$4,630
School expenses	1.821	LXX	J.7KO	1.X49	1.713
Roard and lodging	1,582	1,485	1.502	1,703	1.73
All other expenses	. 892	68K	7 22	1.060	1.144
farried, no children.		•		•	•
Total expenses	6.930	6.550	6.665	7.015-5	7.28K
School expenses	1.74+	1.805	1.802	089'1	1.733
Board and lodging	2,892	2.775	2.407	2.411	2,934
All other expenses	2.294	1,970	1.956	2,424	2.631
Aarried, one child:					٠
Total expenses	6,573	5,867	7,123	6,784	6.704
School expenses	1,485	1.606	x 4.	1.534	1,382
Board and ludging	2,768	2,235	2.486	3,103	2,854
All other expenses	2.320	2.026	2,719	2,147	1.468
farred, two or more children:			-		
Total expenses	7.774	7,843	8,358	4,205	6.60 R
School expenses	1.706	1.994	1.79x	1.409	1.613
Board and lodging	3,530	3.617	3,901	3.660	3.190
All other expenses	2.538	2.232	2,659	4.136	1.805

23

Table 23 AVERAGE ANNUAL EXPENSES OF MEDICAL STUDENTS. BY LIVING ARRANGEMENTS AND MARITAL STATUS

			Nan	Marital status	
sju.ansaurije alivi j	All students 1	Single	Married no children	Married one child	Married two er more children
letel	65.53	\$4.248	08.6.48	\$4.573	\$7.774
Dormitory	410.7	4,846	8,878	908.9	9.400
School owned or control	675.3	4,486	6.012	6,231	6.481
Aparti cent or house	656.5	064.4	7,069	6,695	K.693
Recent in preside of fratefully house	3.810	3,703	5.722	4,238	
Parents of relatives home	3.140	2,955	6.467	4.648	1.550
Hospital (as extern)	4.235	1.931	8.720	094.9	
Other	787.7	2.631	5.559	3.880	6.970

Includes data for students who were widowed, disorced, or separated. No students in this category.

Aggregate Expenses

Aggregate annual expenses of medical students curing the 1970-71 school year were \$222.7 million. In public control. Aggregate expenses for students in private medical school: climbed more slowly, by 13 the public medical schools, aggregate expenses increased sharply from \$70.3 million in 1968 to \$123.5 percent, from \$79.1 million in 1968 to \$99.2 million in 1971, as compared with a 25 percent increase in million in 1971, much more rapidly than the 38 percent increase in enrollment in medical schools uncer enrollments in these schools.



AGGREGATE ANNUAL EXPENSES OF MEDICAL STUDENTS, BY EXPENSE 111 N AND CONTROL OF MEDICAL SCHOOL, THE NEED OF MEDICAL SCHOOL, THE NEED OF MEDICAL SCHOOL, THE NEED OF MEDICAL SCHOOL.

		90 <u>0</u>	000.	000	000		. 000	000	000	000	000
Private		\$79,145,000	32,973,000	14.886.000	17.805.000		\$99.216.000	39.551.000	19,695,000	15.229.000	24.741.000
Public schools	1968	\$70,270,000	18,400,000	16.431.000	21,407,000	1561	\$123,512,000	32,993,000	29.674,000	22,195,000	38.650.000
Albooks		S149,415,000	51,323,000	31,317,000	39,112,000		\$222,728,000	72,544,000	19,369,00	37,424,000	63,391,000
Lypense nem		fotal expenses	School Copenses Lodons and maintenance of	In the quarter	All other expenses		Total expenses	School expenses	lying quarters	Board	All other expenses

1 Source: U.S. Department of Health, Education, and Welfare, Public Health Service, How Medical Students Finance Their Education, January 1970. PHS Publication No. 1336-1, U.S. Government Printing Office, Washington, D.C. 20402.







the sources of income of medical students were grouped into six In the 1971 study, as in the studies conducted in 1964 and 1963, major categories. These are

- during school terms and between terms, money withdrawn Own earnings and savings money earned by the student from savings, reserves, sales of stock, income from investments, business, real estate, etc.,
- spouse's wages and salary, and loans obtained by spouse; Spouse's eurnings
- from parents, in-laws, relatives, and riends, including money burrowed by parents; Gitts and/or louns
- Louns outside tunily from the medical school or university, from the Lederal Government under the Health anteed by the American Medical Association Education and Research Foundation, from States, medical societies, fra-Professions Educational Assistance Act, bank loans guar ternal organizations, hanks, and loan companies,
- Nonretunduble grants scholarships, grants-in aid, tuition remissions, etc., from any source;
- military reserve pay, G.I. Bill, and income from other and unspecified sources. All other sources

Most medical students use a variety of sources to finance their medical education. I ew students complete their training without some financial help from their families, but the proportion of students reporting such help has been decreasing steadily since 1964.

In that year, 71 percent of all medical students received some financial help from their families; this proportion dropped to 65 ncreases were noted in the proportions of students who reported percent in 1968 and to 54 percent in 1971. Over this same period, income from their own earnings and from loans.

Sixty-three percent of the single students and 42 percent of the married students reported that some portion of their income in 1971 came from parents or other relatives. Marital status accounts for the largest variation in the sources from which medical students' income was derived in 1971. Among category of married students. However, spouse's contributions single students, parents' contributions were the principal source of ncome accounting for 36 percent of the income reported. Married students reported that only 11 percent of their income came from parents or other relatives, and this proportion was the same for each accounted for 48 percent of married medical students' income, although the proportion decreased from 55 percent for married students with no children to only 19 percent for those with two or more children. 14bie 23 SOURCE OF INCOME OF MEDICAL STUDENTS BY MARITAL STATUS

income from their own

carmings and savings re-

ported by married stu-

The proportion of

ERIC

dents increased as

percent the same as

tor unmarried stu-

reaching a high of 24

tamily size increased

dents—for those with two or more children. It is of interest that the same pattern was observed in the propor-

Mantal value

Soutes of myoung	Machin	Single	Married no children	Married one and	Marred two or more children
Lotal my one	1(11)	100)	100	1)(1)	1001
Lot 3 men retundable tunde	ž	γ. †:	X.	ŕ	Ç.
wante pur samure ung	×	7,	<u>::</u> :		ň
sămure y catumis	9.	n	iç.	ê	<u>2</u>
atty loon-from taunk	Ē	ě.			==
edetal Besith Protessoms Scholarday	.,			•	٠.
Althoughorted research grants, etc.	_		-		•
Other I edetad research grants, etc.	-	-	-		•
state government scholarship	-			~-	-
Rhet non-telundahir tunds	•	£	v,	>	7
Lotal retandable tunds	7-1	ži.	13	\$:	č
edetal Health Professions foan	σ,	ۍ ٔ		3	. ,
ederal Office of I ducation guaranteed loan	C1	m.	L1	r 1	κ.
by n predessional wheel loan	ri	**		ri	m,
state government loan	••.	7	rı	ri	m
In ate bank loan	, 1	r i	r,	•1	m
Mier leans	√ i	٤	Ci	rr.	.

tions of income from

refundable funds reported by married and single students, i.e., the

as family size increased for married students and reached a high of

proportions increased

25 percent, the same

proportion as for single

medical students.

Lacludes students who were widowed, divorced, or separated

Less than 0.5 percent

incomes. The proportion of students' arcoine derived from founs declined steadily as family income mercased, going from a high of 26 perfent for stadents from families whose income was less than \$10,000 As would be expected, students from fabilies with incomes of less than \$20,000 depended more nearly on tours to traine their medical education than students who came from tamilies with higher to only 7 percent for those whose family income was \$25,000 or more

proportion of married students in public medical schools. Students in private schools reported receiving 27 percent of their income from gifts or founs from family, whereas only 15 percent of the income of students loans from the student's professional school. Probably because of the greater availability of funds from this and private medical schools. Thirty three percent of the income reported by students in public medical whools was derived from spouse's contributions, whereas 25 percent of the income reported by students in from such funds, while students in public medical schools reported only. I percent of their inconst trans private medical schools came from this source. This differential may be partix explained by the greater the pattern of sources utilized by students to finance their medical education yared between public in public medical schools came from this source. There was little difference in the proportions of miomic were noted in the pattern of other loan sources utilized by the two groups, with the single exception of source in private medical schools, students in those schools reported receiving 4 percent of their mission from their own earnings and savings reported by the two groups of students. Only minor differences als

Seventy one percent of the unmarried medical students and 64 percent of the marry I students reported income from their own earnings in 1971. These proportions were down from 10 %, when 52 Tables 28 through 32 shown the variation in average income reported and in the proportions of students (Reference 1, Table 34), in 1971, the average amount of income reported from their own earnings and axings was \$1,419 for single students and \$1,773 for married students. These figures represent increases of percent of the unmarried students and 83 percent of the married reported some income from this source 15 and 10 percent, respectively saver the average amounts reported by single and mailing students in 1968. reporting income by medical school class, overcool in medical schools, and by marital status The proportion of all medical students who reported income from their own earnings and savings was 67 percent in 1971, and there was considerable variation in the proportion of students with income from this source among the various classes. The proportion of single freshmen reporting income from this source was 76 percent

1

SOURCE OF INCOME OF MEDICAL SEUDENIS BY FAMILY INCOME.

				Landy income	ຸກເ		
Soutce of income	lotal	Levy than \$5,000	95,000	\$10,000	\$15,000 \$19,999	\$20,000 · \$24,999	\$25,000 or more
l otal meome	100	100	10V ·	100:	100.	100.	160',
fotal non-retundable tunds	ž	74	72	78	7.8	% %	. 93
Own carming and same	ž	. 61	91	×	5	17	30
Spiniors camings	€.	ći	Ş	₹ .	×	31	. 29
Gatts loans from family	ξ,	-	~	7	×	29	36
Lederal Health Professions Scholarship	۳.	×	7	,,	:41	~1	•
Allbaupported rewarch grants, etc.	-	-	-	-	-:	-	-
Other I ederal research grants, etc.	-	-	-	•	-	•	-
State government wholardup	-	rı	-	-		•	•
Other non-tefundable funds	7	<u> </u>	<u>ئ</u> :	7	•	٠	17
Lotal refundable funds	5	3.6	3.6	21	22	=	7
Lederal Health Professions toan	v.	3	æ	ع	7	~ 1	•
Lederal Office of Education guaranteed foan	۳.	۳.	۳.	7	m	-	٠
Own professional wheel form	-1	7	m	~1	~ 1	CI	
State government loan	٠٠,	7	7	۰۰,	m	CI	
Private bank lean	C1	CI.	. 2	۳.	7	CI	
Other leans	7	+	•	47	S	S	~

• Less than 0.5 percent.

SOURCE OF INCOME OF MEDICAL STUDINGS BY CONTROL OF MEDICAL SCHOOL I able

Source of income	Als s hook	Public.	Private	
Lotal myonic 1	90	(E)	=======================================	
Fotal non-returndable tunds	2	80	×.	•
Own cannings and sayings	s:	20	×	
Spousessentubations	ş	۲۴. ۲۴.	ź,	
Gifts bans from family	Ē,	<u>~</u>	r.	_
Lederal Health Protessions Scholarship		٠٠,	~~ .	
NH supported research	-		-	_
Other I ederal research transmig	-	-	•	_
State government wholarship	-	-	~	_
Other non-retandable funds	۴٠	٤	x	3
Total retundable tunds	2	20	ę . 	
l ederal Health Protessions foan	v.	£	77	_
led ral Office of I ducation guaranteed foan	er,	₩.	C 1	
Own professional wheel loan	/ 1	_	7	
State government loan	٠٠.	٠٠.	٠.	
Private bank toan	rı	۲,	۲,	_ ,
Other loans	4	√ 1	**	_
				_

¹ Details may not add to totals due to rounding

single seniors who reported income from their own earnings and saving: was 57 percent in 1971, and they reported an average of the average amount they reported was \$1,329. The proportion of

than the number of single students with such tunds, but on the The numbers of single and married medical students who reported income from NIH supported research grants were nearly equal, but the average amount granted single students was abort 12 percent higher than the average for married students. The number of married medical students who had income from research or training grants from federal sources outside NIH was substantially greater average, single students reported sommahat higher amounts.

students, or nearly one half of those who reported loans, had More than one-hali (54 percent) of all medical students borrowed money to help finance their education. Iwenty six percent of all obtained a loan from HPFAA funds. In 1968, 42 percent of all medical students reported loans, and 32 percent reported wans from HPFAA funds. (Reference 1, Table 46). The average HPFAA loan amounted to \$1,240 in 1966, and \$1,084 in 1971

lorty-seven percent of all medical students held a scholarship or nonrefungable grant during the 1970-71 school year a substantial increase from the 32 percent who had such awards during the medical students in 1971, received a grant awarded from HPLAA funds, as compared to only 9 percent in 1968. The average grant 1967-68 term. (Reference 1, Table 53). Fighteen percent of all from HPL AA funds amounted to \$964 in 1971 and \$856 in 1968.

Own Earnings and Savings

Two out of every three medical students reported income from their own earnings and savings in 1971, and the average income from this source was \$1.578.

[·] Less than 0.5 percent.

Tabl. 28
ANTEACT ANOUNT OF INCOMEREPORTED BY SINCEL AND MARRIED MEDICAL STUDIESTS
BY SOURCE AND BY CONTROL OF MEDICAL SCHOOL.

			•						
		All mede al students	dent	Single	Single medical students	udents	Marned	Married medical students	tudent
Searce of ancome	Alternative	Public & houds	Private whench	All	Public schools	Private	Merchan	Puthin v. honds	Private v. httok
				Average an	rount of H	Wetage amount of income reported	P.d		
Own carnings and savings	81,578	15515	\$1.621	\$1,419	\$1.263	\$1.620	\$1.773	51.847	\$1.623
Spous 's contribution	4.507	4,406	107.4				1.540	4.44.7	4.72H
Coffe found from Jamily	2,14.5	1.653	2772	2,249	1.749	J.KKG	1.96.1	1.491	2.575
I ederal health professions scholarship	サジラ	706	1.067	575	NN.	1.061	cxx	6 % 5	1.075
NIII-supported rewatch	77%	789	427	168	774	1.035	3.36	798	KÛN .
Other I ederal research grants, etc.	\$7X	X SX.	789	890	<u> </u>	487	<u>↑</u>	7.36	1.106
State povernment wholardup	581	5.35	563	563	(f.	525	603	Xay.	607
Other non-retundable funds	1.782	1.790	1.714	1.483	1.4.1.	1.546	2.033	2.163	1.938
l'ederal health protessions loan	1.034	1.0%S	× 1	CKS	~	1.039	1.201	1.145	1.213
i ederal Other of Education guaranteed foan	† † † T	X0+.1	1.4.22	1,382	1.370	1.415	X77.	1.445	1.456
National detense student han	1.155	₽. I.'	1.203	1.184	1.169	1.216	1.130	1.11	1.187
Own professional school loan	1.269	1.020	K 7 7. 1	1,234	1,055	1.363	1.322	946	1.562
State government loan	1.4.T		1.447	1.360	1.326	1.413	1.452	1.433	564.
Private bank . an .	1.46.	1381	1.533	1.422	1.360	1.537	1.397	1.345	PC 2.1.
Other founts	1.624	1.528	1.700	1.584	1.540	1.650	1.675	1.515	: Q:
			i		•				



·· »(

WERE ANOUND OF INCOMERREPORTED BY SINGLEAND MARKIED MEDICAL STUDINGS

<u>...</u> ...

BY SOURCE AND BY MEDICAL SCHOOL CLASS

Source of meetic	chases	grappan j	Sophomore	Junks	Senior
	1	Average amount of income reported	I income report	led	
	Single medical students	dents			
Amer pur simure uno	614'17	678.17	71.464	01717	585.15
Sponselventrabution					
taffy loans from family	245.5	2.025	2,199	0.5.5	2,405
l ederal heafth protessions scholarship	\$ 24.	145	604	1.037	8.35
All supported regards	16%	151	414	1.6	75.5
Other I edetal research grouts, et.	305	1.160	¥74	1.255	5
State government schelarship	. 95	7.5	7%5	171	563
Orber goneretundable mads	1,483	1, 142	1,303	1.453	2.040
Lederal health professions lean	CXC	N. C	nsx x	1.178	£ 3
l ederal Office of I ducation guaranteed from	1,382	1.282	1.498	1.392	1.420
National detense student loan	1.184	1 117	1.375	1.242	476
Own professional whool loan	7.7.7	1.253	1.390	1.128	750
State government loan	1.360	1.255	1.352	1,345	1.583
Private bank foun	1,422	1.24	1.451	1,526	1.371
Other Joans	1.584	1.485	1.368	1.936	1.54
	Married medical str dents	dents			
Own carmings and sayings	81,73	0.61.	\$1.566	\$1,655	\$1.886
Spausesantribution	075.7	#28":	4.330	4,853	5.239
Cutte hans from tante	1.46.7	1.525	2.077	2.161	2.052
Federal health professions wholarship	488	566	018	=	1.168
All-supported reward	467	1,093	<u>~</u>	17.2	580
Other I ederal tescarch grants, etc.	81.5	75°	~. ?! %	937	1.034
State government scholarship	503	029	544	668	688
Other non-refundable funds	2.033	1.614	1.767	2.052	2.482
Leader of the state of the stat	102 1	1.522	855	YXO (1,338

(Continued)



ANTERAGE ANOUNT OF INCOME REPORTED BY SINGLE AND MARRIED MEDICAL STUDENTS BY SOURCE AND BY MEDICAL SCHOOL CLASS Table 29 (Continued)

			Medical school class	اداعة	
Source of meame	A!! c.35cr)	Lieshman	Suphomore	Junior	Senior
	Ma	red medical ste	Married medical students (continued)	(p.:	
Federal Office of Lancation guaranteed foan	445	1.379	1.343	₹. •	1.632
National detense student loan	1.130	1.050	1,737	956	1.185
Own protessional wheel bean	1.322	1.316	1.262	1.482	142 10
State government loan	CSF'	1.437	1.426	1.507	1.401
Private bank loan	1.347	,¥\$6	1,452	1.872	1,361
Other leans	1.675	F18.1	1.052	J.KS4	1.K36



PROPORTION OF SINGLE AND MARRIED MEDICAL STUDENTS REPORTING INCOME
BY SOURCE AND BY CONTROL OF MEDICAL SCHOOL Jable 30

...**...**

	All	All medical students	lents	Single	Single medical students	udent	Marrie	Married medical students	Indent
Sout.c of income	All shades	Public whooly	Private	All	Public s. hook	Private	All	Public wheeds	Private
			Ţ	portion of	students re	Proportion of students reporting source	rce		
						٠	•		
Own carnings and sayings	49	. 89		. 17	717	71.:	1	9	9 (c.:
Spous's contribution	X.	7	13				, x,	2	7X
Gifts loans from tamify	Z.	90	61	\$. \$.	Ş	99	4	37	53
tederal health professions scholarding	×	<u>5</u>	91	×	7.	15	17	1	1.
NIH-upported textacts	÷	ع	£	σ,	~	S	٥	ے	£
Other I ederal research grants, etc.	7	ψ.	۳,	~	m	m	S	ع د	· ~
State government wholarding	x;	: -	3 -	3	3	æ	æ	•	2
Other non-relundable funds	re. C1	×	9 .	::	11	- 67	۲. د.	0,	, <u>Q</u>
l esteral health professions loan	ç	÷.	21	3¢	31	3 0	5.6	12	
Federal Office of Education guaranteed loan	Ξ	~	ε	<u>0</u>	==	9	2		^
National detenat student toan	, e.,	7	C)	۰۰,	~	· r i	7	7	~
Own professional whool loan	=	1	<u>s</u>	~	3.	<u>\$</u>	æ	v.	
State government loan	=	2	÷	=	=	01.	=	=======================================	•
Private hank loan	7	2	7	٠	۲	\$	=	~	5
Other loans	2	13	Ξ	13	<u>+</u>		=		=



Table 31

PRUPORTION OF SINGLE AND MARRILD MEDICAL STUDENTS REPURTING INCOME BY SOURCE AND BY MEDICAL SCHOOL

Proportion of students reporting source

E
3
=
3
1
3
••

	All	Preshman	Sophonore	Junior	Senor
		S	Single medical students	dents	
Own carnings and savings	11.6	.,92	73%	2.69	57%
Spouse's contribution					
Cutts/loans from tamby	65	65	67	79	63
Legeral health professions wholarship	×	15	16	23	24
WIH-supported research	S	r.	01	۳.	S
Other I ederal research grants, etc.	~	m	د	C1	_
State enveranced cholarship	3 *	æ	æ	01	∞
Office non-retundable funds	21	36	30	61	٠ 4
federal health professions foun	76	20	. 23	30	37
Lederal Office of Education guaranteed loan	21	• 01	30	9	2
National defense student loan	M	m	7	~	~
Own professional whool loan	2	13	01	2	7
State government lear	., =	10	20	=	<u>.</u>
Private bank loan	9	4	7	20	6
Other loans	13	14	٥	15	•

Married medical students

Own camines and savings	64%	2.99 . 2.92	. 55':	62
Spouse's contribution	. 81	77 80	62	77
Gifts/loans from family	42	48 42	. 38	43
Federal health professions scholarship	11	15 - 17	11	82
NIH-supported research	9	8	•	4
Other Federal research grants, etc.	S	12 5	S	7
	æ	7	7	7
•	23	25 21	23	24

(Continue)

-

PROPORTION OF SINGLE AND MARRIED MEDICAL STUDENTS REPORTING INCOME BY SOURCE AND BY MEDICAL SCHOOL Table 31 (Continued)

		: : : : : : : : : : : : : : : : : : :			
Souice of income	Ail	f reshman	freshman Suphamare Junior Seniar	Junior	Senior
		Marrie	Married medical students (continued)	nts (contin	(par
ederal health professions foan	25	2,	27	7.	. Fi
Federal Office of I ducation guaranteed foun	2	=	<u></u>	Ξ	7
National defense student foan	7	7	~	√ .	7
Own professional wheat toan	æ	•	•	2	æ
State government loan	=	2	<u>e</u>	15	æ
	=	15	, 6	=	=
Cither Iouns	=	=	=	=	13



PROPORTION OF MEDICAL STUDENTS REPORTING INCOME AND AVERAGE AMOUNT OF INCOME FROM LACH SOURCE, BY MARITAL STAFUS Table 12

	:		Man	Mantai status	
Source of income	Atudents	Single	Marned, no children	Married, onc.	Married, two or more
Own cannings and sarings					
Percent reporting source	(<u>.</u>	1.	2	72	46
Average amount reported	\$1,578	\$1.14	\$ 1,620	\$2,011	\$2,524
Spounc's contribution .					
Percent reporting source	¥		Š	75	기
Average amount reported	\$4,507		\$ 1,870	\$ 5°524	\$3,077
Cotts from tamits					
Percent reporting source	7.	65	*	**	#
Average amount reported	\$ 2.14 \$	\$2,249	165.18	\$1.735	\$2,493
Lederal Health Professions Scholarship					
Percent reporting source	2	×	~	U 127	1 F
Average amount reported	\$ 964	\$ 4.15	876 5	156 \$	\$1,332
MH supported research					
Petcent reporting source and a second second reporting source	£	v	ε	1 -	~ ;
Average amount reported	8.44	168 \$	\$ 840	\$ 692	\$ 644
Other I ederal research grants, etc.					
Percent reporting source	শ	~	••	=	
Average innount reported	\$ 8.46	068 \$	t:86 \$	\$ 558	\$2,000
State government scholarship					
Percent repriling source	20	æ.	۲۰	6	9
Average afficient reported	\$ 581	\$ 563	\$ 570	\$ 687	8 640
Other non-retundable to, do					•
Percent reporting source	č	22	7	76	7
Ave age amount reported	\$1,752	\$1,483	\$1,829	\$ 2,448	\$2,376

HADE 32 (Continued)
PROPORTION OF MEDICAL STUDIALS REPORTING INCOME AND AVERAGE ANOUNT OF INCOME FROM FACH SOURCE, BY MARITAL STATUS

			Mar	Marital status	
	Ŧ		Married.	Married.	Married.
Source of income	Students		20	one	two or more
		Singe	children	child	children
sideful Heart Professions Loan					
Percent report by source	<i>;</i> .	£,	61	*	4
Average afficient reported	\$1.084	€ 48.2	\$1,059	\$1.14	\$1,175
lederal Office of I ducation guaranteed man					
Percent reporting source	2	2	7	:-	2
Average amount reported	\$11.11	\$ 1, 45.2	\$1,524	\$ 1,301	\$1,357
Authorial Defense Student Loar					
Percent reporting source	**	~	-7	~	**
Weinge amount reported	\$1,155	\$ 1,18.1	\$1,151	\$ 872	91,550
Own professional school toan					
Percent reporting source	01	2	×c	30	92
Average amount reported	41,204	\$1.24.4	\$1,245	\$1,467	\$1,262
State government com					
Percent reporting source	-	=	Ξ	=	~
Average amount reported	\$ 1,404	\$ 1, 36,0	\$1,478	\$1,441	061,18
Private bank toan					
Percent reporting source	5	ε	2	20	9
Ascrage amount reported	\$ 1,407	\$ 1, 122	\$1,476	\$1,303	192,18
Percent reporting source	2	<u>:</u>	3	2	ç
			, 10, 10	003.13	774 67



The proportion of single students who reported income from their own earnings and savings was 71 percent in both public and private medical schools. However, single students in private medical schools. However, single students in private medical schools reported an average of \$1,620 from this source, or \$357 more than those in public schools. Among married students, the proportion of students with income from their own earnings and savings, and the average amount of income from carnings and savings. \$1,847, and single students in these schools reported from this savings. \$1,847, and single students in these schools reported from this source were almost identical for single and married students in private medical schools, only 60 percent of the married students reported such income as compared to 71 percent of the unmarried students.

į

Variation between classes in the proportion of students who reported income from their own carnings and savings and in the average amounts reported was inconsistent. Married first year students and married seniors reported the highest average amounts from earnings and savings in both public and private medical schools. The lowest average amounts were reported by single students in their first or third year in the public medical schools.

Twenty six percent of the single students in medical schools and 25 percent of the married students with no children worked during the 1970-71 school year. The proportion of students who worked increased to 42 percent for married students with one child and 43 percent for those with two or more children.



DISTRIBUTION OF MEDICAL STUDENTS BY AVERAGE HOURS WORKED DURING 1970-71 SCHOOL TERM AND MARITAL STATUS

Houry worked per week Single Single All Intal students Intal				Mai	Maritul status	
1047 1007 1007 1007 1007 1007 1007 1007	Hours worked per week	All students 1	Single	Married, no children	Married, one child	Marned, two or more children
28 26 25 41 9 9 8 11 12 12 9 9 14 18 5 4 4 18 1 1 0 1 1 0 1 1 0 2 1 work	lotal students	. 4811	100	100	100:	1007
9 9 8 11 12 12 9 5 4 4 1 18 1 1 1 2 1 work 72 74 75 S9	Lotal who worked	**	£	ži	4	43
12 12 4 5 4 4 1 18 1 1 1 1 1 0 1 1 1 0 2 Morked 14 20	1 9 hours	3 *	3	×	=	01
5 4 4 18 1 1 • 1 1 0 2 worked 14 13 14 20	_	~	2	2	7	: :
1 1 1 2 1 work 1 vork 1 vorked 14 20		V.	7	7	×	×
1 . 1 2 1 work Austrical 14 13 14 20		_	-	•		C1
rock 72 74 75 59	40 hours or more	-	•	-	CI	_
rked . 14 📦 14	Total who did not work	72	7.4	75	\$5	13
	Median hours worked	7	*	7	20	13

Includes students who were widowed, disorted, or separated.

[·] Less than U.'s percent.

In private medical schools, the proportion of married students who worked increased as family size increased, reaching a high of 52 percent for married students with two or more children. However, in these schools, the proportion of single students who worked was greater than of married students with no children.

					ř
Mantal status		All	Public schools	Private	<i>≂.</i> ∓
Single Percent who worked		9, 5	36	26	İ
Daylow simple lightly		2	<u>*</u>	<u>- </u>	•
Married, no children Fercent who worked		ኢ	χ	2	
Median hours worked	•	7	<u> </u>	1.2	3
Married, one child Percent who worked		7	4	35	₹ ₹
Median hours worked		ş	07	61	≘ ₹
Married, two or more children	lea				ğ
		~. T	36	52	ž
Median hours worked		٢_	2	13	Ę

14ble 15
DISTRIBUTION OF MEDICAL STUDENTS BY AVERAGE HOURS WORKED
DURING 1970-71 SCHOOL TERM AND MEDICAL SCHOOL CLASS

Medical school class

Hours worked per week	All	Prediman	chases Fredutian Sophomore Junior Senior	Sunior	Senior
Total students	1007	1007	901	106	:001
Total who worked	3 x	7	≠	30	*
1 9 hours	3	77	13	2	
	<u> </u>	v	15	2	9
	v.	7	S	0	7
30 39 hours	-	•	-	_	-
40 hours or more	-	•	•	-	~
Total who did					
not work	7.2	ž	şş	92	99
Median hours worked	1	÷	7	15	1
· Lex than () 5 mercent					

The median number of hours worked per week by medical students was 14, an increase of 2 hours over the median in 1968. For students in public medical schools, the median number of hours worked was 15, as compared to 12 for private medical school students, and for each marital status group, the median hours worked by students in public medical schools exceeded that for students in private medical schools. Married students with no children worked substantially longer hours in both public and private medical schools than students in all other marital status categories.



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first-year students who worked during the 1971 school year was considerably smaller than the proportion of employed students in any other class. However, the hours worked by first-year students exceeded the hours worked by students in all the other classes, with the single exception of third-year students in public medical schools.

Nine percent of all medical students reported some income from Federally-supported research or clinical fellowships, trainerships, or grants, and 58 percent of these were supported by the National Institutes of Health (NIH). Three out of every five awards supported by NH were reported by students from families whose income was less than \$15,000 in 1971.

Table 3b
PROPORTION OF SINGLE AND MARRIED MEDICAL STUDENTS
WORKING DURING 1970-71 SCHOOL TERM AND
NIEDIAN HOURS WORKED BY MEDICAL SCHOOL CLASS

			Medical school class	ı dav	
Marital status	All	l rediman	All claves I rediman Suphomore Junior Senior	Junivi	Senior
Single students					
Percent who worked	36	10	34	36	3
Median hours worked	13	7	13	4	7
Marned students -					
Percent who worked	30	7.	34	22	Ę
Median hours worked	15	7.	¥₽	15	7

Income from NIH supported research or clinical awards averaged 5824, whereas income from similar awards from other Lederal agencies averaged 5846.

DISTRIBUTION OF MEDICAL STUDIENTS WHO RECEIVED FEDERAL RESEARCH OR CLINICAL HELLOWSHIPS AND AVERAGE ANOUNT OF HELLOWSHIP BY FAMILY INCOME Lable 47

	· HIN	NIH - supported research or chincal fellowships	ich P	Other	Other Lederal rewarch or clim, at fellowships	rch tys
l amily income	Number of students	Percent of students	Average	Number of students	Percent of students	Average
1 otal	2.122	104	\$5.24	1.571	1007;	\$846
Lew than \$5,000	861	5	831	138	5	993
\$ 5,000 \$ 9,999	0++	~	873	754	9	1.125
\$10,000 \$14,999	563	:1	SQ.	223	±	1.082
\$15,000 \$19,999	244	=	474	531	ユ	539
\$20,000 \$24,499	300	~	715	150	01	739
\$25,000 or more	111	33	769	270	17	696



ON THE STATE OF TH

In the 1971 survey, medical students were asked to provide the amount of acome contributed by parents or relatives, However, the amounts reported and the proportion of students reporting such income are not strictly comparable to similar information reported in 1968, since the carlier survey asked for information on the amounts of "loans and or gifts from parents, inclaws, other relatives and friends," a somewhat different concept. As a result, the following comparisons of data from these two surveys should be viewed with caution.

Only \$4 percent of all medical students reported income from parents or relatives contributions in 1971, while 65 percent of the medical students had reported income from "loans and or gifts" from family or friends in 1968 (See Tables 28 through 32).

The proportion of single medical students who had income from parents or relatives' contributions was 65 percent in 1971, or nearly double the proportion of married students with two or more children who had such income (34 percent). However, the average amount reported by the latter group was \$2,393, as compared with an average of \$2,249 for single students. Forty-three percent of the married students with no children reported an average of \$1,993 from parents or other relatives, while 44 percent of those with one child averaged \$1,735 from this source.

The proportions of married medical students who had financial help from parents or other relatives varied by class, and much more so than the proportions for single medical students. For married

medical students the proportion receiving financial assistance from parents ranged from 38 percent for juniors to 48 percent for freshmen. For single medical students, the proportion ranged from 63 percent for sophomores.

The highest average amounts from parents were reported by jumors, regardless of their marital status. Married students in each class received, on the average, smaller amounts from this source than their unmarried classmates (See Table 29).

Spouse's Earnings

Seventy-eight percent of all married medical students reported some income from spouse's earnings. Among married students with two or more children, the proportion of students reporting income from spouse's earnings was 44 percent in 1971, down from 50 percent in 1968, the proportions for the other two groups of married students each declined by only one percentage point.

On the average, spouse's contributions were slightly higher in the private medical schools than in the public schools, but the proportions of students reporting such income were almost identical (See Tables 28 and 30).

Loans Outside Family

Income from loans outside their family was reported by 54 percent of all medical students in 1971, an increase from 42 percent in 1968. These loans were obtained from a variety of sources. Loans from funds made available unce. HPEAA were utilized by 22 percent

Jable 38

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NUMBER OF MEDICAL STEDENTS REPORTING LOANS FROM VARIOUS SOURCES AS INCOME FOR 1970, AGGREGATE ANOUNT OF LOANS, AND PERCENT DISTRIBUTION OF LOAN MONEY. BY MEDICAL SCHOOL CLASS

			. Medical	Medical school class	
Source of Joan	. All classes	l reshman	Sophomore	funnt	Senior
Nember of students reporting foans				-	
All sources !	21.816	5.446	かですら	2.417	474.4
t ederal Health Protessions	10.188	2.537	2.646	2.565	2,440
Office of I ducation	3.425	1.176	1.074	1.005	670
Medical school 2	1.00.4	1.143	Chh	656	606
State government	4.242	1.06×	1.057	1.265	852
Private bank	3,483	867	818	918	886
All other	. 6.087	1.779	1.201	1.587	1.521
Aggregate amount of loans.					
All sources	S41,846,000	\$10.976.000	59.321.000	S11,706,000	\$9,843,000
1 ederal Health Professions	11,053,000	3,019,000	7.269.000	2.913,000	2.852.000
Office of I ducation	5.553,000	1.551.000	1.550,000	1,419,000	1.033.000
Medical school	5,083,000	1.447.000	1.330.000	1.256.000	1.050,000
State generalment	5,959,000	1.411,000	1.462.000	1.822,000	1,264,000
Private bank	4.901,000	923.000	1,183,000	1.586.000	1,209,000
All other	9,297,000	2,625.000	1.527.000	2.710.000	2,438,000
Percent distribution of loan mones:					
All sources	JOH):	; 100r.	100:	100	1001
I ederal Health Protessions	36	X.	77.	÷.	29
Office of Education		2	17	.1	01
Medical school 2	≏ .	13	7	=	Ξ
State government	4	13	9	15	13
Private bank	~	эс ,	<u>~</u>	13	. 12
All other	. 23	74	91	77	25

1 Number of students by source adds to more than total because some students reported more than one source of loan, 2 Except HPUAA loans.

•



1.262 1.291

1.467 1.341 1.303 1.500

1.524 1.295 1.478 1.476 1.797

1.36.1

1.422 .584

1.404

State government

All other Private bank

.458

from loans outside the family was 19 percent in 1971, an increase and loan companies. The proportion of medical students' income from 13 percent in 1968. EKICAL students in 1971. Other loan sources utilized by Education), their own professional school or university, private méancal students include: other Federal tunds (é.g., Office of banks, fraternal organizations, States, medical societies, foundations,

PROPORTION OF MEDICAL STUDENTS REPORTING LOANS FROM VARIOUS SOURCES AS INCOME FOR 1971 AND AVERAGE ANOUNT REPORTED, BY MARITAL STATUS 1 able 39

			Man	Mantal status	
Source of lean	All students 1	Single	Married, no children	Married. one child	Marned. two of more children
Percent of students reporting loans			:	•	
All sources	54.	245	4.	:69	74
Federal health professions	×	25	×	4 3	4 3
Office of Education	91	•	6	13	15
Own professional school 2	2	=	æ	x	91
Sfate government	01	10	11	=	2
Private hank	ઝ	٥	×	20	<u>S</u> 1
All other	<u>:</u>	13	3	13	24
Average amount reported	3		,		
All souther and a second secon	21.12	707.18	21.57.5	31.380	. i . i .
Federal health professions	1.0%	982	1.059	1.434	1.175
Office of Education	† † T	1.382	1.524	1.301	1,357
Own professional school 2	1.269	1.234	1.295	1.467	1.262

2 Except HPE AA loans.

I includes students who were widowed, divorced, or separated.

More than 21,800 medical students reported borrowing amounts from non-tamily sources in 1971, totaling \$41.8 million. The average loan amount increased from \$370 per medical student enrolled in 1963-64 to \$623 in 1967-68 and \$1,035 in 1976-71.

PROPORTION OF MEDICAL STUDENTS REPORTING LOANS FROM VARIOUS SOURCES AS INCOME FOR 1971 AND AVERAGE AMOUNT REPORTED,

BY CONTROL OF MEDICAL SCHOOL.

Public.

Source of Fodis	S S S S S S S S S S S S S S S S S S S	X COL	S0027
Percent of students reporting loans.			
All sources	S.45.	2.98	\$13
Federal health professions	25	38	21
Office of I ducation	9	12	•
Own professional school	0	7	15
State government	2	=	~
Private bank	-	0	1
All other	13	12	1

The state of the s			
שאבושוני שוווספווני וני ליחו נים			
All wurdes	\$ 1,310	\$1,259	\$1.40
Federal health professions	1.084	1.068	1.1
Office of Education	1.414	1.408	1.432
Own professional school	1.269	1.020	3
State government	5 9.	1,382	4
Private bank	1.407	1.351	1.533
All other	1.624	1.528	1.790

The proportion of medical students reporting luans in 1971 ranged from 49 percent for married students with no children to 74 percent for those with two or more children. In 1968, 37 percent of the the married students with no children and 63 percent of those with two or more children reported loans. Among single medical students, the proportion with loans increased from 42 percent in 1968 to 54 percent in 1971.

The proportion of students in the private medical schools with loans from the medical schools or university was more than double the comparable proportion in the public medical schools, probably because of greater availability of funds. This relationship was reversed for students reporting loans from Federal Office of Education funds. Proportionately more students in public medical schools reported HPE AA loans than students in private schools.

Loans from HPEAA funds totaled more than \$11.0 million during the 1970-71 school year, a decrease of \$2.5 million from the aggregate amount from this source in 1967-68. The number of students reporting loans from HPEAA funds also decreased, from 10,923 to 10,188, and the average loan amount decreased from \$1,240 to \$1,084 over this period.

Of the 21,800 medical students who borrowed money in 1971, approximately 13,500 borrowed from only one source. One out of every three students who used only one loan source borrowed from HPE AA funds, but the average amount borrowed from this source was smaller than the average from any other single source.

And 41A and 41B show the average amounts borrowed by medical students who combined HPI AA with loans from other non-family sources, and by those students who utilized the same number of

Fable 41A.

NUMBLE AND AVERAGE AMOUNT OF LOANS REPORTED BY STUDENTS IN PUBLIC MEDICAL SCHOOLS

BY SOURCE OF LOAN AND MARIFAL STATUS

	:					Marita	Marital status			
	All st	All students	Š	Single	Marned, 1	Married, no children	Married,	Married, one child	Ma Iwo or m	Married, two or more children
Number and source of fuan	Number of students	Avitage amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed
One source Ederal Health Professions	2,748	\$1.077	1,662	\$1,010	634	\$1.186	157	\$1.245	, s	8
federal Office of Education	1,127	1,430	8 19	1,397	430	1,556	128	12.18	S 5	1 2 20
Own professional school	665	1,365	300	1,503	198	986	63	2,548	88	300
State government	176	1,357	471	1,336	429	1,394	24	1,205	11	1,500
All Cohes	903	1,514	341	1,193	441	1,796	105	1,295	2	2,000
Two courses	1,614	1,714	80 80 80	1,747	850	1,830	185	890'1	E.	2,126
f ederal Health Professions and									•	
other luans	3,338	2,437	1,611	2,251	789	2,311	850	2.879	8	2700
All other combinations	1,318	2,393	689	2,412	406	2,433	508	2,337	4	1.100
Three sources: Federal Health Protessions and				•		•				
other luans	647	2,364	282	3,331	132	4.202	5	3,122	221	2.861
All other combiantions	278	3,6 37	190	3,396	69	4,366	61	3,400	:	
rour sources: Federal Health Professions and										
other loans	108	4,359	36	5.476	35	995 3	14	3 500	73	• 650
All other combinations	13	5,800	•	:	13	5.800	•	906'9	Q :	9,930
five sources: Federal Health Protessions and										•
other loans	12	6.300	1	•	12	9	ı			~
A:1 other combinations	i	;		1	•	3		•	1	1 :
None Excess LIDE A A losse								•		!

-- None. 1 Except HPEAA toans.



NEMBER AND AVERAGE AMOUNT OF LOANS REPORTED BY STUDENTS IN PRIVATE MEDICAL SCHOOLS
BY SOURCE OF LOANS AND MARITAL STATUS Table 41B

						Mantal status	status	٠		
	A11 vt	All students	Sil	Single	Married. 1	Married, no children	Married.	Married, one child	Mar one or mo	Marned. one or more children
Number and source of loan	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount burrowed
One source:	0071	300	900	1000	25	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			3	949
Federal Office of Fducation	.65 .92	1.451	219	1.493	155	1.387	061	9/516	2 ×	500 - C
National defense	183	1,192	132	1.110	36	1,315	12	1,700		
Own professional school	1,558	1.564	894	1.429	206	1,755	73	1.298	88	2.069
State government	548	1.324	328	1.310	192	1,323	. 15	1.500	13	1.500
Private bank	432	1.488	176	1.743	207	1.178	33	2.072	91	1.500
All other	717	1.805	404	1,753	211	1.901	7	1.368	55	2,123
Two sources: Federal Health Professions and other loans	1,209	2.656	678	2,754	327	2,522	121	2.435	*	2.712
All other combinations	883	3,224	483	2,911	330	3,219	45	7.117	**	2.828
Three sources: Federal Health Professions and other loans	376	3.371	212	3.100	68	3.201	96	4.265	51	2.500
All other combinations	77	3,748	77	3.748			1	1	•	!
Four sources: Federaum and other twan-	51	5.558	27	5,255		:			*	2.900
All other combinations	15	4.050	15	4.050	•					\
· None. I Except MPEAA loans.							Ģ	<i>(</i> **	•	

ERIC

repayment during the 1970-71 school year. In the public Inedical schools, 9 percent of the students who horrowed made some repayment in 1971, as compared to 5 percent in the private medical schools. Only 3 percent of the single medical students who reported burrowing had made repayments during the 1970 school year, and the amounts they repaid averaged \$935. Among married students, 6 percent of those with two or more children made repayments, averaging \$590, while 13 percent of those with no children and of Only 7 percent of the students who had borrowed during their medical school career had made any those with one child made repayments, averaging 5943 and \$876, respectively

Table 42
PROPORTION OF MEDICAL STUDENTS WHO MADE SOME REPAYMENT
OF DEBTS DURING 1970-71 SCHOOL YEAR AND
AVERAGE AMOUNT REPAID, BY MARITAL STATUS

Mantal status	Proportion of students staking repayments	Average amount repaid
All Mutents	٠.٢	8920
Single	~	935
Married, no children	13	943
Married, one child		876
Married, two or more children	£	290

Includes students who were widowed, divorced, or separated.



refundable Grants

lwelve percent of medical students' income was derived from nonretundable grants or scholarships. This is tour times the proportion of income accounted for by these wurdes in 1968. The number of students reporting income from non-refundable grants, nearly doubled from 1968 to 1971, increasing from just over 10,000 to nearly ju 100.

Lederal and State sources of nonrefundable funds accounted for about 5 percent of medical students income, whereas a miscellary of unidentified sources accounted for approximately 7 percent. Scholarships from HPLAA funds accounted for 3 percent of medical students income in 1971 (See Table 25).

there was considerable variation by class in the proportions of inedical students with grants from specific sources. I wents percent of the senior medical students received HPLAA scholar-hips, as compared to 15 percent of the first-year students. Only 13 percent of the seniors reported income from other Federal and State grants and scholar-ships, while 23 percent of the sophomores reported announts from HPEAA scholarships, State government scholarships, and non-governmental grant sources, but a smaller amount drom NH-supported research grants than students in the other classes.

Although the highest total average amount of grants received was reported by seniors in the public medical schools, students in the other classes in these schools generally reported smaller average amounts than students in the private medical schools. Average amounts of grants from the sources specified in the questionnaire (HPLAA, other Lederal, and State governments) were considerably smaller than average amounts from "other" sources.

All Other Sources of Income

Iwenty three percent of all medical students reported income from nonretundable funds from sources not listed on the questionnaire. These sources accounted for 7 percent of all medical students' income in 1971. An average of \$1,752 was reported from other nonretundable funds, and the average amounts ranged from \$1,483 for single students to \$2,448 for married students with one child

I welve percent of all medical students reported income from "other" loan sources that accounted for 4 percent of total income. The average amount from "other toans" was \$1,624, with the lowest average amount \$1,458 being reported by average amount \$1,458 being reported by average amount \$1,458 being reported by highest \$1,797 by married students with two or more children and the highest \$1,797 by married stude. is with no children (Table 32).

PROPORTION OF MEDICAL STUDENTS WITH GRANTS FROM VARIOUS SOURCES, BY CONTROL OF SCHOOL AND MEDICAL SCHOOL CLASS Table 43

:

		:	Medical whool class	d class	•
Control of medical school and source of grant	All	l reshman	Sophomore	Junior	Semor
Percent of students with grants:					
All whools: All wurces: 1	17.5	4 KT:	46 /3	477	45%
Federal Health Professions wholarship	17	15	91	2	20
NIH-supported rewarch	S	~	3	4	·
Other Federal research/training	7	9	v)	· [47]	
State government	æ	٢	6	×	
Other	22	25	20	30	23
Public schools. All sources: 1	45	44	. 4	41	•
I ederal Health Professions scholarship	: <u>=</u>	÷ <u>4</u>	· -	7	; ;
NIH-supported research		2 ~	: 6	;) •
Other Under d research/training	n v	n 3	•	* •	.
	ר נ	c (~. 1	^	-
	_	-	7	_	٠
Other	<u>æ</u>	ž	7	6	;;
Private whools: All sources, 1	95	S.	es.	47	47
Federal Health Professions wholarship	91	1.2	91	<u> </u>	61
NIH-supported research	s	~~.	~	4	ء
Other Federal research/training	m	r-1	9	rı	
State government	•	s.	10	1	:: • •
Other	38	37	28	e e	. 26

•

٠,

Percent of students by source adds to more than total because some students reported more tran one source of grant.



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AVERAGE AMOUNTS OF GRANTS FROM VARIOUS SOURCES REPORTED BY MEDICAL STUDENTS. BY CONTRUL OF SCHOOL AND MEDICAL SCHOOL CLASS Table 44

			Medical school class	\ G	
Control of medical whool and source of grant	All	Freshman	Sophomore	Jumor	Senor
Average an ount of grants					
All whools All sources	961.18	\$1,130	\$1.024	/07'1 ≮	51,490
rederal Health Professions scholarship	5	216	/ 98	186	1,032
NPI-supported research	24	939	888	826	2
Other Federal research/training	846	843	705	1.020	989
State government	581	623	523	556	3
Other	1,752	1,468	1,505	1,797	2,328
Public schools All sources:	1.146	096	924	1,189	1.601
I ederal Health Professions scholarship	406	922	822	922	8
NIH-supported research	789	806	639	768	089
Other Federal research/training	898	810	789	1.049	869
State government	595	613	577	575	611
Other	1.790	1.264	1,307	1,857	2.680
Private schools. All sources:	1.270	1.397	1.132	1,234	1.349
Federal Health Professions scholarship	1.067	1,087	931	1.107	1,152
VIII-supported rewarch	927	1,215	982	966	919
Other Federal research/traming	789	1.056	635	897	1,210
State government	563	651	466	539	672
Other	1.714	1.637	1,660	1.724	1.896



2, ficits and Surpluses for 1970-71 School Year

The proportion of medical students who report a balance between income and expenses had decreased from 58 percent in 1964 to 18 percent in 1971, 14ts six percent of the students with income and expenses in balance in 1971, had achieved this without loans. From 1964 to 1971, the proportion of students whose expenses exceed income has tripled jumping from 12 percent of all students in 1964, to 17 percent in 1968, and to 37 percent in 1971. There was a 50 percent increase in the proportion of medical students whose income exceeded their expenses, the percentages going from 30 percent in 1964, to 38 percent in 1968, and 45 percent in 1967).

COMPARISON OF DISTRIBUTION OF MEDICAL STUDENTS BY RELATIONSHIP BETWEEN INCOME AND EXPENSES, 1964 1, 1968 2, and 1971

Lotal LODE LODE LODE LODE LODE	Relativitying netween meo me and expenses	· 1961	Lock	141
58 4.5 15 16 4.3 28 18 expenses 30 38 ed income 12	Lotal	100	:00	1001
15 16 43 28 18 expenses 30 38 ed income 12 17	In balance	×.	S. +	×
43 28 28 58 30 38 cd income 12 17	With tour	>1	<u>9</u>	×
30 38 17	Without Ioans	~;	×	10
12	Income exceeds expenses	30	38	54
	Lypenses exceed income	걸	17	3.7

1 Source: U.S. Department of Health, E acation, and Welfare, Public Health Service, How Medical Students Finance Their Education, June 1965. PHS Publication No. 1336. U.S. Government Printing Office, Washington, D.C. 20402.

2 Source: U.S. Department of Health, Education, and Welfare, Public Health Service, How Medical Students Finance Their Education, January 1970, PHS Publication No. 1336-1. U.S. Government Printing Office, Washington, D.C. 20402.

between income and expenses in 1971, a substantial decline since 1968, when more than one half of the single students reported balanced budgets. The decline was equally diamatic for married students, with the proportion of students with balanced budgets dropping from 26 to 8 percent for married students with no children and from 36 to 17 percent for married students with two or mere children over the period from 1968 to 1971.

PROPORTION OF MEDICAL STUDING NEW REPORTING EXPENSES IN LACES OF INCOME AND AVERAGE DEFICITS, BY MARITAL STATUS AND MEDICAL SCHOOL CLASS

	. N.		Medical school class	ol class	
Marrial status	· lave.	dayes bredman	Sophomore June	Junus	Serior
Percent of students with					
with deficits					
All students	7.	. 27		. 92	=
Single	7	-	7 7	2	€
Married, ne children	=	۲.	\$ 2	31	2,
Married, one child	ê,	, t	ST	35	0€.
V ried two of mote					
hildren	£.	₹ .	×	80	χ;
Acres deficit					
All Students	115.13	\$1,343	\$1,369	\$1,521	196.1S
Single	1.037	423	1,038	1.228	1.314
Married, no children	47.07	1.924		2.058	2,388
Married, one child	2.220	2,306	2,267	1.218	3,002
Married, two of					
more children	44.0	3.76.1	1.029	1.500	1.500 1.497

Includes students who were widowed, divorced, or separated



Deficits

As would be expected, average deficits were generally higher for married students than for single students. However, variation in the proportion of students with deficits and the average amount of deficit was inconsistent within and across class lines. The lowest average amount of deficit was \$923, reported by single first-year students, and the highest was \$3,761, reported by married first-year students, with two or more children. While for all students, the average deficit increased as family size increased, this pattern was not consistent in the three upper classes.

PROPORTION OF MEDICAL STUDENTS REPORTING EXPENSES
IN EXCESS OF INCOME AND AVERAGE DEFICITS, BY
MARITAL STATUS AND CONTROL OF MEDICAL SCHOOL
All Public Private

schools

schools

Marital status

Percent of students with deficits:	ð	ي	÷			-			
All students 1	•	•	•				37%	34%	42%
Single	•	•	•			• •	. 4	38	46
Married, no children	•	•	•			·· •	31	38	37
Married, one child .	•	•	•		•	•••••	36	36	35
Married, two									
or more children	•	٠	•	•			. 37	42	31
Average deficit:							.		
All students 1	•	•	•				\$1,511	\$ 1,48 1	\$1,549
Single	•	•	•				1,077	955	1,210
Married, no children	•	•	•				2,074	2,092	2,051
Married, one child	•	•	•	•			2,220	2,217	2,230
Married, two or							•		
more children	•	•	٠				2,242	1,841	3,081

¹ Includes students who were widowed, divorced, cr separated.



higher for single students and married students with two or more children than for those students in public medical schools. Greater proportions of single students and of married students with no children reported deficits in private medical schools than in public, but there was little difference in the proportions of married students with one child who had deficits or the the average amounts of deficit they reported. In the private medical schools, three out of every ten married students with two or more children reported expenses in excess of income, as compared to four out of every ten students in this category in public medical schools.

Surpluses

forty-five percent of all medical students in 1971 reported income that exceeded their expenses, an increase of 7 percentage points over the proportion in 1968. The proportion of single medical students with surpluses increased from 25 percent in 1968 to 33 percent in 1971, but the average amount of surplus reported by single students dropped slightly, going from \$886 in 1968 to \$863 in 1971.

Three out of every five married students with no children reported income that exceeded expenses in both 1968 and 1971, and there was an increase of only \$12 in the average amount of surplus

PROPORTION OF MEDICAL STUDENTS REPORTING INCOME IN EXCESS OF EXPENSES AND AVERAGE SURPLUSES, BY MARITAL STATUS AND CONTROL OF MEDICAL SCHOOL

	£10013	2005
466	\$0 \$	388
33	38	27
(1 9	99	53
52	53	49
46	48	44
765 13	\$1.634	\$1,512
863	897	808
2.101	2,125	2,050
2,166	2,096	2,412
1,018	- 66	1,052
	45% 33 61 52 46 46 \$1,594 863 2,101 2,106	<u>_</u> ~ ~ ~ ~

Among married medical students with one child, the proportion with income exceeding their expenses increased from 46 percent in 1968 to 52 percent in 1971. The average amount of surplus reported increased also, going from \$1,793 in 1968 to \$2,166 in 1971, whereas the average amount of surplus reported by married students with two or more children plummeted from \$1,969 to \$1,018 over this period.

Although increases were observed in the proportion of students with surpluses and in the average amount of surplus, a consistent pattern was apparent among unmarried students only. The average amount of surplus reported by unmarried seniors was \$1,192, or more than double the average of \$543 reported by unmarried freshmen.

Among married medical students with no children, the proportion with income that exceeded expenses increased from



percent for freshmen to 66 percent for seniors. Seniors reported the largest average surplus (\$2,752) in this group of students, and sophomores the lowest (\$1,574).

erally less than \$100. The single Although the proportion of stantially greater in public medical schools than in private schools amounts of surplus were genstudents with one child, who \$2,096 in public medical schools schools. In both public and pristudents with surpluses was subfor each marital status category, differences between the average exception was among married reported an average surplus of vate schools, married students reported greater surpluses than and \$2,412 in private medical single students.

Table 49
PLRCENT OF MEDICAL STUDENTS REPORTING INCOME
IN EXCESS OF EXPENSES BY MARITAL STATUS AND
ML DICAL SCHOOL CLASS

Medical school class

		1			
Percent of students					
with surpluses:					
All students 1	45	365	42%	47%	\$4%
Single	33,		33	33	39
Married, no					
children	-9	56	28	63	ą
Mairied, one child .	25	54	39	88	\$4
Married, two or					
more children	46	37	\$\$	43	49
Average surplus:					
All students 1	\$1,594	\$1,223	\$1,260	\$1,622	\$2,206
Single	863	543	868		1,192
Married, no	-				
children	2,101	1,776	1,574	1,967	2,752
Married, one child .	2,166	2.572	1,944	1,842	2,175
Married, Iwo or					
more children	1,018	1,073	911	1,116	1,019

In 1971, 45 percent of the medical students who came from families whose income was less than \$10,000 reported expenses that exceeded their income. Forty percent of the students from such tamilies reported surpluses, and 15 percent reported a balance between income and expenses. This latter group relied more heavily on loans than students in any other family income category.

DISTRIBUTION OF MEDICAL STUDENTS BY RELATIONSHIP BETWEEN INCOME AND EXPENSES AND FAMILY INCOME

				r amily income	υ	
Relationship between income and expenses	Ail	Under \$ 5,000	-000'\$ \$ -000'\$ \$	\$ 10,000	. 15,000- \$ 24,999	\$ 25,000 or more
Total	%001	100%	100%	100%	%001	100%
In balance	91	14	16	15	20	22
With loans	6	=	=	6	۲.	m
Without loans	7	٣	s	9	=	<u> 6</u>
Income exceeds expenses	45	42	. 39	64	47	47
Expenses exceed income	39	43	45	36	. 35	31



ebtedness

sixty-tive percent of all medical students had debts in 1971, averaging \$4,289. Approximately \$3,600, or 85 percent of the average debt, was accounted for by loans made since entry into medical schools. The proportion of students with debts increased as size of family increased, ranging from 61 percent of the single students to 88 percent of the married students with two or more children.

The average amounts of debt reported by single students and by married students without children were nearly equal. Married students with one child reported an average indebtedness of \$4,632, while for those with two or more children, the average amount climbed to \$7,007.

Table 51
PRUPORTION OF MEDICAL STUDENTS
WITH DEBTS AND AVERAGE AMOUNT OF DEBT REPORTED,
BY MARITAL STATUS

Mantal status	Proportion of students with debts	Average amount
All students 1	6.5 Q	\$4,289
Sinkle	19	4,100
-	65	4,086
Married, one child	- 20	4,632
Married two or more children	90	7,00,7

I includes students who were divorced, widowed, or separated.



The proportion of students with debts increased for each year of medical school, ranging from 61 percent for freshmen to 72 percent for seniors. This pattern was repeated for the average amounts of debt reported which ranged from \$2,975 for treshmen to \$5,504 for seniors.

Table 52
PROPURTION OF MEDICAL STUDENTS WITH
DI BTS AND AVERAGE AMOUNT OF DEBT REPORTED,
BY MARITAL STATUS

Medical	Proportion of stude reporting debts	Proportion of students reporting debts	Average 1	Average amount of debts reported
class	18961	1971	18961	1761
All classes	°c† †	%59	\$3,046	\$4,289
Freshman	25	19	1,557	2,975
Suphomore .	47	62	2,088	3,545
lunior	52	89	3,420	5,194
Servior	52	72	4.397	5.504

¹ Debts for college and medical education. From Table 60, How Medical Students Finance Their Education, January 1970. PHS Publication No. 1336-1. U.S. Government Printing Office, Washington, D.C. 20402.





SUMMARY OF FINDINGS FOR OSTEOPATHIC STUDENTS

The proportion of all osteopathic students who were married was 50 percent, with the proportions by class ranging from 50 percent for freshmen to 76 percent for seniors.

In general, osteopathic students came from families in which the income and father's educational level were above the average for all families in the United States, Iwenty-pine percent of all osteopathic students came from cities of 500,000 or more population, while only 16 percent of the total United States population lived in such cities.

Total expenses for all ostcopathic students averaged \$6,710. Due to increases in amounts spent for board and lodging and other (non-school) items, osteopathic students' average annual expenses increased as family size increased, ranging from \$4,878 for unmarried students to \$8,519 for married students with two or more children.

School expenses (tuition, fees, books, etc.) averaging \$2,520 accounted for 38 percent of the annual expenses reported by osteopathic students, while board and lodging accounted for an additional 36 percent. The remaining 26 percent was accounted for by miscellaneous and unspecified expense items, such as transportation, taxes, and insurance.



ERIC

Seven out of every ten osteopathic students reported income from their own earnings and savings, and the average amount reported was \$1,675. Three out of every ten students worked during the school year. Gifts and/or loans from family were reported by \$2 percent of all osteopathic students, and averaged \$2,159.

Osteopathic students who were married reported income from spouse's carnings ranging from 21 percent of total income for those with two or more children to 53 percent for those with no children. The smallest average amount of income from spouse's carnings was \$3,496 for married students with one child while the largest was \$4,658 for married students with no children.

Seven out of every ten osteopathic students reported income from loan sources outside their families. At the time of the survey, osteopathic students had received \$3.5 million in loans.

Nearly one-half of the osteopathic students reported income from scholarships or other nonrefundable grants. The average amount received from these sources was \$812.

Fifty percent of all ostcopathic students reported deficits in 1971. An additional 8 percent balanced their budgets with income from loans. Only 5 percent of the students reported balanced budgets without loans, and 37 percent expected income to exceed their expenses. The average amount of deficits reported was \$2,107. Eight out of every ten ostcopathic students reported debts. The average amount of debt increased for each year of school, and ranged from \$3,457 for freshmen to \$9,796 for seniors.

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ERIC

2 8 8 2

303 278 249 232

> 555 498 475

623

Freshman Sophomore

Junior Senior

DETAILED FINDINGS FOR STUDENTS OF OSTEOPATHIC MEDICINE

For a discussion of response rates for osteopathic students, please see page xiv of this report.

Table 53
DISTRIBUTION OF
OSTEOPATHIC SCHOOLS
BY PERCENT OF RETURNS

۱	l	۱	١	١		
_	Percent of returns	Ę	5		N osfeog	Number of osteopathic schools
2	Total	i .				r.
Less than 75	than	3.				
76	80	•	•	•		
- 8	š	•	•	•		~1
2	90	•	•	•		F-4
- 16	9.8	•	•	٠		_
*	5	•	•	•		-

	Percent	87
TURNS FOR HOOL CLASS	Questionnaires mailed	1,062
COMPLETENESS OF RETURNS FOR LACH OSTEOPATHIC SCHOOL CLASS	Total students academic year 1970 – 71	2,151
CON	Osteopathic school class	All classes



Marital Status

The proportion of married students in osteopathic schools increased from 57 percent in 1968 to 60 percent in 1971. There was an increase in the proportion of married students in each class except the junior class, where the proportion decreased from 66 percent in 1963 to 58 percent in 1971.

Table 55
DISTRIBUTION OF OSTEOPATHIC STUDENTS BY
MARITAL STATUS AND GSTEOPATHIC SCHOOL CLASS

	•	0	Osteopathic school class	ool class	
Marital status	A11 classes	- Freshman	classes Freshman Sophumore Ingion Series	- Scient	
Number of students .	2,151	623	\$55	498	475.
All students 1	100%	100%	100%	%001	100%
Single Married, no children Married, one child Married, two or	40 35	30	41 38 12	42 35 15	38
more children	:	•	6	1	72
I includes students who were divorced, widowed, or separated.	ho were div	orced, wido	ved, or separat	ē.	•



Among married osteopathic students in 1971, ercent had no children, 22 percent had only one child, and the rentaining 19 percent had two or more children. The dis ribution of osteopathic students by marital status and osteopathic school class is shown in Table 55.

Family Income

The distribution of osteopathic students and medical students by family income is presented in Table 56, with a similar distribution for all families in the United States. Whereas the median family income of \$12,232 for osteopathic students was lower than that for families of medical students, it was higher than the median income for all families in the United States. Fourteen percent of all osteopthic students in 1971 came from families with at income of \$25,000 or more while only 5 percent at the Lamilies had incomes in this category.

Father's Occupation

Eleven percent of all osteopathic students and 15 percent of all medical students in 1971 came from a family in which the father was a physician An additional 5 percent of medical and osteopathic

students' fathers worked as professionals in other employed males 40 years old or over in the United States were physicians or worked in health-related health-related occupations. Only 2 percent of all professional occupations.

MEDICAL STUDENTS, AND OF ALL FAMILIES IN THE UNITED STATES, COMPARISON OF FAMILY INCOME OF OSTEOPATHIC STUDENTS, Table 56 1970

Family income	Osteopathic students 1	Medical students 1	All families 2
Total	. 100%	103%	100%3
Less than \$5,000	12	7	61
\$ 5,000 - \$ 9,999	25	20	32
\$10,000 - \$14,999		25	27
\$15,000 \$24,999	. 21	26	38
\$25,000 or more	7	22	S
Median income	\$12,232	\$14,616	\$ 9,867



Based on students who reported on family income.
Source: U.S. Department of Commerce, Bureau of the Census. Current Population Reports, Consumer Income, Series P-60, No. 80, October 4, 1971, Table 16.

Uetails may not add to total due to independent rounding.

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FATHER'S OCCUPATION AND COMPARISON WITH OCCUPATIONAL DISTRIBUTION OF EMPLOYED MALLS, 40 YEARS OLD AND OVER IN THE UNITED STATES, DISTRIBUTION OF USTEOPATHIC AND MEDICAL STUDENTS BY Table 57

1970

Occupation	Osteopathic students fathers	Medical students [*] fathers	Employed males, 40 years old and over 1
All oxtubations	100%	100%	%001
Physician	Ξ	15	-
Medical and other health worker	.	v.	-
Other professional and technical	18	28	=
Owner, manager, proprietor	25	70	. 4
Clerical	v.	\$	7
•	œ	٢	7
Craftsman, skilled worker .	91	0.	22
Unskilled worker	∞	9	31
Farmer, tarm worker	77	~	9

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¹ Source: U.S. Department of Commerce, Social and Economic Statistics Administration, Bureau of the Census, Occupational Characteristics, 1970 Census of Population, PC(2)-7A.



Fybic 58 DISTRIBUTION OF OSTEOPATHIC AND MEDICAL STUDENTS BY FATHER'S EPUCATIONAL LEVEL IN COMPARISON WITH THE EDUCATIONAL LEVEL OF MALES 40 YEARS OLD AND OVER IN THE UNITED STATES,

£ ducational level	Osteopathic students tathers	Medical students: tathers	United States males 40 years and over 1
All levels	100°2	:3001	3001
Eighth grade or less	2	30	38
Some high school	=	٥	19
Completed high school	61	17	23
Specialized technical training	30	•	~
Some college	7-	4	Φ
Completed college	-	14	•
Graduate or professional	24	35	\$

¹ Source: U.S. Department of Commerce, Bureau of the Census, Detailed Characteristics, United States Summary, 1970 Census of Pepulation, PC(1)--D1.

Category not reported separately.

Father's Educational Level

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the proportion of osteopathic students with fathers who had education beyond college was 24 percent. Only 5 percent of the male population 40 years old or over in the United States in 1970 had education at this level. The 1971 survey indicated that 13 percent of osteopathic students' fathers had ended their formal education before high school; this compares with 17 percent of students' fathers in this category reported in the 1968 survey.

Size of Hometown

The proportion of osteopathic students from cities having a total population of 100,000 or more dropped by 1 percentage point (43 percent to 42 percent) from 1968 to 1971, and there was no change in the proportion of students from the smallest places.

Average Annual Expenses

As in previous studies, marital status was the most important determinant in the amount of money needed by an osteopathic student. For unmarrivd students, the average annual expense in 1971 was \$4,878; for married students the average was \$7,945. These amounts represent increases of 28 and 25 percent, respectively, over comparable figures for 1968.



DISTRIBUTION OF OSTROPATHIC AND MUDICAL STUDENTS
BY SIZE OF HOMETOWN IN COMPARISON WITH
DISTRIBUTION OF THE TOTAL POPULATION OF THE UNITED STATES,

Osteopathis Medical Lotal students students (Enited States

Size of humetown Lotal 500,000 or more 25,000 quigan	Students Stu	100 100 200 200 200 200 200 200 200 200	United States population, 1970 1 100: 10:
5,000 21,944	Ξ.	2	-
7,999 or less	2	×	30

Soutce: U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants, United States Summars, 1970 Census of Population, PC(1), A1.

Table 60 AVERAGE ANNUAL EXPENSES OF USTEOPATHIC STUDENTS BY MARITAL STATUS AND OSTEOPATHIC SCHOOL CLASS

	Ā		Osteopathic school class	hoof class	
Marital status	classes	f reshman	Freshman Sophomore Junior	Junior	Senior
Total 1	\$6,710	\$6,180	\$6,666	\$6,831	\$7,330
Single	4,878	4,656	4,690	5,136	5.394
Married, no children	7,799	7,499	8,109	109'2	7,944
Marned, one child	7,850	666'9	7,555	8,810	7,895
Married, two or					
more children	8,519	9,430	8,413	888,8	7,948

I includes data for students who were widowed, divorced, or separated.

Fable 61
DISTRIBUTION OF OSTEOPATHIC STUDENTS BY TOTAL ANNUAL LAPENSES AND MARITAL STATUS

	He .		,	Mantai sentas	
lotal annual Sypenses	, students	Single	Marned, no children	Married, one child	Marned, two or more children
Number of students	2,151	Sect	12	28.7	147
All students	501	100	100.	100	100.
l ess than \$4,000	5	٥,	-	-	_
1,000 \$1,444	5 1.	=	v	~	~
. 4949 \$ 5,000 \$ 5	16	7,	2:	-	8
. 949.c. 9 000,a \$	1.5	2 0	2	~ 1	18
666'2\$ 000'2 \$	٤	**	7.	<u>;</u> ;	77.
\$ 8,000 \$8,999	=	~•	<u>5.</u>		91
666'6\$ 000'6 \$	J	-	2	£	7
\$10,000 or more	: 0	•	Ξ	<u>~</u>	20

Includes students who were widowed, disorced, or separated.

Annual expenses reported by married students with two or more children averaged \$8,519 in 1971, and only 8 percent of these students reported total expenses of less than \$6,000. Married students with no children reported expenses averaging \$7,799, as compared to \$7,850 reported by married students with one child. About 82 percent of the students in each of these groups had expenses of \$6,000 or more. Only 15 percent of the single students had expenses this high.

Average annual expenses for unmarried osteopathic students increased for each class year, ranging from \$4,656 for freshmen to \$5,394 for seniors. Among married students, freshmen with one child reported the lowest average expenses, and their classmates with two or more children reported the highest average expenses.

As would be expected, osteopathic students who lived with their parents or other relatives reported the lowest average expenses. However, four out of every five osteopathic students lived in apartments or houses not under school control, and their expenses were substantially higher on the average than those for osteopathic students with other living arrangements.



[•] Less than 0.5 percent.

Fable 62

AVERAGE ANNUAL LYPLNSES OF OSTEOPATHIC STUDENTS BY LIVING ARRANGEMENTS AND MARITAL STATUS

	į		Y.	Marital status	
tions of an angelong	Att. Madents ¹	aganç	Married, no children	Married, one child	Married, two or more children
	\$6,710	\$4.878	64,749	\$7,850	\$8,519
Dormitory or school owned					
or controlled	× 723	810'8	7,113	5,666	6,152
Other apartment or house	7.1.7	5,133	7,859	8,019	8,742
Private or fraternity room	5,0,5	4,600	8,83.4	7,076	9,321
Parent's of relative's home	4,65	191'+	6,751	5,575*	8,086
Other	5,765	4,177	6,845	\$,520	6,420

1 Includes data for students who were widowed, disorted, or separated.

· Based on data from fewer than 10 students.

greater than the total average expenses reported by medical students in private schools in 1971, and the osteopathic students' average expenses were greater in each expense category (Table 64). However, the The total average annual expense of \$6,710 reported by osteopathic students was about 7 percent percent distributions by expense item are almost identical for the two groups of students.



AVERAGE ANNUAL EXPENSES OF OSTEOPATHIC STUDENTS FOR VARIOUS ITEMS, BY MARITAL STATUS

	Married, two or nore	children	_	61.5.68	2.54n	Ø. •• *	2,495
Mantal status	Married.	child		\$7,850	2.520	3.024	2,307
Mant.	Married.	hildren		662 28	2,532	7.857	2,410
		Single		\$4,878	2,425	1,872	881
•	All students 1			\$6,710	2,5.20	2,420	1,770
4	I spense item			Lotal expenses	School expenses	Board and ledgeng	All other expenses

¹ Includes students who were widewed, disorced, or separated.

Table 64 AVERAGE ANNUAL EXPENSES AND PERCENT DISTRIBUTION OF EXPENSES OF OSTEOPATHIC STUDENTS AND MEDICAL STUDENTS FOR VARIOUS ITEMS, 1971

	Osteopa	Osteopathic students	Medical	Medical students in private schools	
		Percent		Percent	
Expense item	Annual	distribution	Annual	distribution	
	expense	oi experise	cypense	oi capense	
Total expenses .	0i2'9\$	n.001	\$6,242	100%	
School expenses .	2,520	38	2,431	36	
Board and lodging	2,420	36	2,279	36	
All other expenses	1,770	26	1,532	25	

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PART 7



SOURCES OF INCOME

for all osteopathic students, the proportions of income from nonrefundable and from refundable funds changed very little from 1968 to 1971. However, there were substantial changes in the proportions of income derived from specific sources. The proportion of osteopathic students' income from their own earnings and savings dropped from 24 percent to 18 percent, and loans from HPLAA accounted for only 5 percent of income in 1971 as compared to 12 percent in 1968. Since there was little change in the proportion of income from loans reported by osteopathic students, it is apparent that osteopathic students used additional loan sources to compensate for the drop in HPEAA aid (Table 65 and Reference 1, Table 75).

The average amount borrowed by osteopathic students ranged from approximately \$2,100 for single students and married students with no children, to nearly \$3,000 for married students with two or more children.



Table 65 SOURCE OF INCOME OF OSTEOPATHIC STUDENTS BY MARITAL STATUS

	<u> </u>	•	Ma	rital status	
Source of income	All students 1	Single	Married, no children	Married, one child	Married, two or more children
Number of students:	2,151	866	757	287	241
Total income	100%	100%	100%	100%	100%
Total nonrelundable funds	74	70	81	69	68
Own earnings and savings	18	23	13	19	23
Spouse's earnings	30	-	53	30	21
Gitts/loans from family	18	38	10	10	1.1
Federal Health Professions scholarship	3	3	2	4	3
State government scholarship	1	1	1	2	1
Other nonrefundable funds 2	4	4	2	4	10
Total refundable tunds	26	30	19	31	32
Federal Health Professions loan	5	5	3	7	5
Federal Office of Education guaranteed loan	4	5	4	4	6
Own professional school loan	1	1	•	2	1
State government loan	6	8	5	6	5
Private bank loan	3	3	2	3	5
Other loans	7	8	5	9	10

¹ Includes students who were widowed, divorced, or separated.
2 Includes Federal research grants and clinical fellowships which accounted for less than 0.5 percent of total income.

[•] Less than 0.5 percent.

Table 66
NUMBER AND AVERAGE AMOUNT OF LGANS REPORTED BY OSTEOPATHIC STUDENTS,
BY SOURCE OF LOAN AND BY MARITAL STATUS OF STUDENTS

						Marital St	atus			
	All st	udents ¹	· Sı	ngle .	Married, i	o children	Married	one child		rried, ore childre
Number and source of loan	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of students	Average amount borrowed	Number of student	Average amount borrowe
All sources	1,502	\$2.298	525	\$2,127	527	\$2,095	24.5	\$2,528	205	\$2,981
One source	570	1,384	207	1,405	238	1,411	63	.,397	62	1.224
Federal Health Professions	207	747	71	739	.79	764	26	592	31	854
Lederal Office of Education	80	1,513	24	1,483	37	1,540	10	1,600	9	1,388
Own professional school	18	748	10	1,000	2	250	3	240	3	750
State government	138	1,533	52	1.532	67	1,553	11	1.445	н	1,500
Private bank	37	2,105	17	2,017	18	2,311	2	0.000		•
All other	90	2,337	31	2,446	35	2,064	11	3,327	. 11	2,063
Two sources	569	2.285	206	2,250	187	2,179	110	2,302	66	2,679
Lederal Health Professions and other	435	2,118	164	2.143	138	1,954	90	2,144	43	2,501
All other combinations	134	2,831	42	2,666	49	2,811	20	3,018	23	3,013
Three sources	287	3,417	98	2,982	86	3,448	48	3,582	5.5	3,998
Federal Health Professions and other	244	3,294	84	2.839	71	3,334	4.3	3,498	46	3,815
All other combinations	43	4,112	14	3,846	15	3,986	. 5	4,300	9	4,628
lour sources	68	4.832	10	4,205	16	4.031	24	4,482	18	6,361
Federal Health Professions and other	61	4,786	10	4,205	16	4,031	20	4,438	15	6,443
All other combinations	7	5,236					4	4,700	3	5, 950
Five sources	8	6,500	4	6.975	`.				4	ი.025
Federal Health Professions and other	6	5.933	2	5,750	`				4	6,025
				0.300						_

8,200

8,200

All other combinations and a contraction of the combination of the com

None Includes data for students who were widowed, divorced, or separated.

Table 67
PROPORTION OF OSTEOPATHIC STUDENTS REPORTING INCOME AND AVERAGE AMOUNT OF INCOME
FROM EACH SOURCE, BY MARITAL STATUS

			Mar	ital status	
Source of income	All students 1	Single	Married, no children	Married, one child	Married, two or more children
			•		
Own earnings and savings -		•			
reporting source	69	72	65	66	73
Average amount reported to a control of the	\$1.675	\$1,421	\$1,530	\$2,033	\$2,555
Spouse's earnings	•				
reporting source	44		85	61	44
Average amount reported a control of the control of	\$4,325		\$4,658	\$3 496	\$3,799
Gifts and/or loans from family					
reporting source	52	71	39	44	34
Average amount reported	\$2,159	\$2,374	\$1,883	\$1,518	\$2,591
) ederal Health Frotessions Scholarship					
reporting source	35	3.2	3.3	50	40 '
Average amount reported	\$469	\$484	\$408	\$503	\$535
State Government Etholarship					
'' reporting source	7	6	6*	10	7
Average amount reported	\$946	\$888	\$939	\$1,055	\$950
Other non-refundable funds			ů.		
Freporting source	15	13	13	17	27
Average amount reported	\$1,600	\$1,243	\$1,252	\$1,610	\$2,673
Lederal Health Frofessions Loan	٠				
eporting source	45	40	40	63	58
Average amount reported	\$661	\$609	\$590	\$816	\$737

(Continue) 80



Table 67 (Continued) PROPORTION OF OSTEOPATHIC STUDENTS REPORTING INCOME AND AVERAGE AMOUNT OF INCOME I ROM EACH SOURCE, BY MARITAL STATUS

Married, o or more children
30
\$1,630
9.,
\$1,176
11
\$907
24
\$1,488
22
\$1,752
33
\$2.019

¹ Includes students who were widowed, divorced, or separated.



Forty-five percent of all osteopathic students in 1971 reported loans from HPEAA funds, a substantial decrease from the 54 percent who reported such loans in 1968. The average amount of loans reported from HPEAA funds dropped from \$1,190 in 1968 to only \$661 in 1971. While the proportion of osteopathic students reporting scholarships from HPEAA funds jumped from 14 percent to 35 percent over this period, the average amount received decreased from \$605 to \$469.

Own Earnings and Savings

In 1971, 69 percent of all osteopathic students reported income from their own earnings and savings, as compared to 67 percent of all medical students. In 1968, the proportion of students reporting income from their own earnings was 83 percent in both medical and osteopathic schools.

Osteopathic students in 197 reported an average of \$1,675 from their earnings and savings, while the average for medical students was \$1,578. Seventy one percent of the single osteopathic students and 72 percent of the single medical students reported income from their own earnings and savings. Among married osteopathic students, 67 percent reported an average of \$1,851 from their own earnings. In the medical schools, 64 percent of the married students averaged \$1,773 from this source. For married students in schools of osteopathy, the average amounts reported ranged from \$1,530 for those with no children to \$2,555 for those with two or more children.



The proportion of esteopathic students who worked rose from 27 percent in 1968 to 30 percent in 1971. Whereas the proportion of students who worked increased in three of the four marital status categories, there was an especially sharp increase—from 26 percent to 46 percent for married students in the proportion who worked in each "hours worked" category from 10 hours to 40 hours.

Table 68
DISTRIBUTION OF OSTEOPATHIC STUDEN'S BY
AVERAGE HOURS WORKED DURING 1970-71 SCHGOL TERM
AND BY MARITAL STATUS

			Marit; I status				
Hours worked per week	All students ¹	Single	Married, no children	Married, one child	Married, two or/more children		
Total Students	100%	100%	100%	100%	100%		
Total who worked ²	30	23	27	45	51		
1-9 hours	7	5	8	8.	4		
10-19 hours	14	12	12	17	21		
20-29 hours	7	5	5	14	13		
30-39 hours	2	1	2	4	. 6		
40 hours or move	1	•	•	1	. 7		
Total who did not work	70	77	77	55	49		
Mediar, hours worked	16	15	15	18	20		

¹ Includes students who were widowed, divorced, or separated.

² Details may not add to totals due to independent rounding.



From 1968 to 1971, the proportion of students who worked increased for each osteopathic/school class except the sophomore class, where the proportion did/not change. Forty-s's opercent of the junior students worked in 1971, as compared to 37 percent in 1968. Thirteen percent of osteopathic school freshmen worked in 1971, as compared to 11 percent in 1968 (Reference 1, Table 79).

Table 69
DISTRIBUTION OF OSTEOPATHIC STUDENTS BY AVERAGE HOURS WORKED DURING 1970-71 SCHOOL TERM AND OSTEOPATHIC SCHOOL CLASS

Hours worked per week		Osteopathic school class				
	All classes	Freshman	Sophomore	Junior	Senior	
Total students	100%	100%	100%	100%	100%	
Total who worl ed	30	13	31	46	37	
1-9 hours	7	2	7	14	4	
10-19 hours	14	7	1 <	18	17	
70-29 hours	7	2	6	8	10	
30-39 hours	2	•	2	4	3	
40 hours or more ()	t	1	1 .	2	2	
Lotal who did not work	70	K7	69	54	63	
Median hours worked	16	16	16	15	18	

^{*} Less than 0.5 percent.

Spouse's Earnings

Seventy-two percent of all married osteopathic students reported some income from their spouses' earnings in 1971. The proportion decreased as family size increased, going from a high of 85 percent for married students with no children to only 44 percent for those with two or more children. Married students with one child reported an average of \$3,496 from spouse's earnings, whereas those with two or more children averaged \$3,799, and those with no children averaged \$4,658 (See Table 67).

Gifts and/or Loans from Family

Seven out of every ten single osteopathic students reported having income in 1971 from gifts and/or loans from their families, but only 4 out of ten married students reported such assistance. The average amount received by single students was \$2,374. Although only 34 percent of the married students with two or more children reported income from family gifts and/or loans, they reported the largest average amount \$2,591 from this source. Among the married students, the proportion of students receiving gifts and/or loans from family was highest for married students with one child, and the average amount received was lowest for the same group.

Loans Outside Family

Seventy-one percent of all osteopathic students in 1971 reported some income from loans outside their families. This represents a substantial increase over the 61 percent who reported such loans in 1968. The average amount of income from these sources was \$1,198 in 1971 as compred to \$1,700 in 1968.



Eighty-seven percent of the married students with one child and 85 percent of those with two or more children had borrowed money from non-family sources. Seventy percent of the married students with no children and 64 percent of the single students reported income from these sources.

Forty-five percent of all osteopathic students reported loans from HPEAA funds, but the average amount received \$661—was smaller than that from any source except their own professional schools.

At the time of the 1971 survey, osteopathic students had received \$3.5 million in loan funds, or almost double the amount reported in 1968.

There was only minor variation between classes in the average amounts of loans reported by osteopathic students; however, the proportion of freshmen reporting non-family loans was much smaller than the proportion for students in the other three classes.

Somewhat surprisingly, the average amount of loans reported by freshmen was larger than the average for each of the other classes.

Table 70
PROPORTION OF OSTEOPATHIC STUDENTS REPORTING LOANS FROM VARIOUS SOURCES
AS INCOME 5 OR 1970-71 SCHOOL YEAR AND AVERAGE AMOUNTS REPORTED, BY
OSTEOPATHIC SCHOOL CLASS

Source of loan		Osteopathic school class			
	All classes	Freshman	Sophomore	Junior	Senior
Percent of students reporting loans:				.	
All sources 1	71	59	73	75 '	75
Federal Health Profession	45	30	44	51.	56
Other l'ederal	22	16	26	26	20
Own professional school	10	5	. 8	10	16
State government	25	25	23	26	24
Private bank	12	11	10	11	, 16
All other loans	22	16	24	25	24
All Other Iounit					
Average amount reported:	:		•		
All sources	\$1,198	\$1,241	\$1,155	\$1,173	\$1,226
Lederal Health Profession	661	593 .	631	751	649
Other Federal	1,489	1,4-6	1,520	1,416	1.579
Own professional school	628	3 '9	454	600	845
State government	1,522	1,419	1,467	1,610	1,620
•	1,322	1,597	1,301	1,290	·1,664
Private bank All other loans	1.714	1,974	1,585	1,512	1,855

Percents for each source add to more than total because some students reported more than one source of loan.



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² Except Federal Health Professions loans.

Nonrefundable Grants

The proportion of osteopathic students receiving some income from nonrefundable grants has grown from 4 percent in 1964 to 23 percent in 1968 and 49 percent in 1971. An average of \$469 from HPEAA scholarships was reported by 35 percent of all osteopathic students in 1971. An average of \$1,600 was reported from

Table 7 I

PROPORTION OF OSTEOPATHIC STUDENTS REPORTING INCOME FROM
SCHOLARSHIPS OR GRANTS FROM VARIOUS SOURCES DURING 1970-71 SCHOOL YEAR AND
AVERAGE AMOUNTS REPORTED, BY OSTEOPATHIC SCHOOL CLASS

Source	All	Osteopathic school class				
of grant	classes	Freshman	Sophomore	Junior	Senior	
Percent of students reporting				 ·		
scholarships or grants.						
All'sources	49	42	54	47	56	
Federal Health Professions	35	22	36	40	44	
NIH-supported research/					•	
training	2	1	3	1	3	
State government	7	6	6	6	8	
Other non-refundable funds	15	19	18	. 7	13	
J						
Average scholarship or grant:						
All sources	\$81.2	\$906	\$785	\$751	. \$805	
Federal Health Professions	469	423	450	523	466	
NIII-supported research?						
training	611	304	762	648	540	
State government	946	843	966	932	1.036	
Other non-refundable funds	1,600	1,528	1.421	1,898	1,845	

¹ Percents for each source add to more than total because some students reported more than one source of grant.



miscellaneous sources of nonrefundable Tunds, including tuition remissions. Scholarships and grants accounted for 8 percent of osteopathic students' income in 1971.

Table 72
DISTRIBUTION OF OSTEOPATHIC STUDENTS BY RELATIONSHIP BETWEEN
INCOME AND EXPENSES AND MARITAL STATUS,
1968 and 1970

₽

40

55

37

55

Marital status

44

Married, Married, Married, Relationship All two or more students 1 one Single no between child children children income and expenses 100% 100% 1967-68 Total 2 1004 1007 100% 27 21 47 17 11 Balance 17 13 20 15 With loans 27 9 10 16 Without loans 23 60 47 34 Income exceeds expenses ... 39 23 32 39 30 29 Expenses exceeds income ... 100% 100% 100% 1007 1970-71 Fotal 2 1003 21 13 Balance 11 With loans 10 Without loans

26

53

37

50

² Details may not add to totals due to independent rounding.



Income exceeds expenses

Expenses exceeds income ...

¹ Includes students who were widowed, divorced, or separated.

Deficits and Surpluses for 1970-71 School Year

In 1970, one-half of all osteopathic students reported expenses that exceeded their income. This represents a substantial increase over the 29 percent of osteopathic students in this category in 1968. Whereas the proportion of osteopathic students with surpluses declined slightly over this period, there was a considerable drop in the proportion of students with balanced budgets. Within the group of students with income and expenses in balance, the proportion of students who balanced their budgets without loans dropped considerably more from 1968 to 1971 than the proportion who achieved a balance with loans.

Osteonathic school class

Table 73

AVERAGE AMOUNT OF DEFICIT FOR OSTEOPATHIC STUDENTS BY MARITAL STATUS AND OSTEOPATHIC SCHOOL CLASS AND COMPARISON WITH AVERAGE DEFICIT FOR STUDENTS IN PRIVATE MEDICAL SCHOOLS

	Ali		Ostoopatiile Miloof class			
Marital status	classes	I reshman	Sophomore	Junior	Senior	students in private schools
All students 1	\$2,107	\$1,906	\$2,097	\$2,265	\$2,198	\$1,549
Single	1,300	1,346	1,159	1,323	1,478	1,210
Married, no children	2,815	2,378	3,164	2,474	3,163	2,051
Married, one child	2,691	2,643	2,277	3,947	1,469	2,230
Married, two or more children	2,354	2,379	2,227	2,720	2,235	3,081

¹ Includes students who were widowed, divorced, or separated.



Average deficits reported by students in osteopathic schools were larger than those reported by students in private medical schools for every marital status category except married students with two or more children.

Table 74
PROPORTION OF OSTEOPATHIC STUDENTS
REPORTING EXPENSES IN EXCESS OF
INCOME AND AVERAGE DEFICITS, BY
OSTEOPATHIC SCHOOL CLASS

Osteopathic school class	Percent of students with deficits	· Average deficit
All classes and a second	50%	\$2,107
Freshman	48	1,906
* Sophomore	55	2,097
Junior	53	2,265
Senior	45	2,198



Indebtedness

Eight out of every ten students in osteopathic schools reported some indebtedness in 1971. As expected, both the proportion of students with debts and the average amount of debt reported increased for each year in school.

About 10 percent of the students who horrowed had made some repayments during the school year.

Table 75
PROPORTION OF OSTEOPATHIC STUDENTS
WITH DEBTS AND AVERAGE AMOUNT OF DEBTS
AS OF JUNE 1971, BY
OSTEOPATHIC SCHOOL CLASS

Osteopathic school class	Percent of students with debts	Average amount of debts
All classes	7517	\$5,966
Freshman	72	3,457
Sophomore	79	4,930
Junior	84	6,069
Senior	84	9,796



APPENDICES

Letter and Questionnaire to Health Professions Students: -

Letter to Medical Students

Letter to Osteopathic Students

Letter to Dental Students --

Letter to Pharmacy Students

Letter to Optometry Students

Letter to Podiatry Students

Letter to Veterinary Medicine Students -





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ASSOCIATION OF AMERICAN MEDICAL COLLEGES

/OHR A O COOPER MO PM (

Dear Student

on ochair of the Association of American Medical colleges i would like to encourage your cooperation in the survey of the Health Profession Student Limmsing currently being undertaken by the Bure or of Health Professions Manpower Education of the B 5. Public or life Service.

As Dr. Endicott's letter consistes, information gained from this survey will have important imprications for pulsey and from oil is instance to students in the health prote-sions.

he us, your cooperation in this important study,

Sincerety yours,

John C. D. Compan Birt

John A.D. Cooper, M.H., Phillis Stresident



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American Ostropathic Association

:anuery, 1971

ge er student

is schalf of the Ameri an osteografic, Association, I would like a encourage vous cooperation in the Survey of Health Professions student Financing. As Dr. Endigott's latter indicates, the information gained from this survey will have important inclications for policy in financial essiatance to students in the health professions. We urge your cooperation in this important study.

incerely yours.

Elisaf Crowell Od

11', 1 PRC18:



AMERICAN DENTAL ASSOCIATION

bear bental Student:

On behalf of the American pentod A mogration, I would like the incoracte cour competation in completing the Survey of Health Professions Student Financing. As fir, Endrodt's letter indicates, the observation gained from this survey will have important ample at our for developing policy related to financial assistance to Students in the Health Professions.

We are your ation in completing the questionnaire and participation in most important project.

Sime crely,

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Problem F. Gibler, Ph.D. Appendate recretary (Can if on Sental Education

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American Association of Colleges of Pharmacy

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AMERICAN OPTOMETRIC ASSOCIATION



Dear Student;

On behalf of the American Optometric Association, I urge your cooperation in the Survey of Health Profession Student Financing. As ir. Endicott's letter indicates, the information gained from this survey will have important implications for policy in financial assistance to students in the health professions.

Sincergly yours,

J. Harold Bailey on Executive Director.

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AMERICAN ASSOCIATION OF COLLEGES
OF PODIATRIC MEDICINE

Sear at atent

as the ourse of user streamy sware, the Aferican Association of Illietes of Pudestric Medicine has extended its cooperation to the Gureau of health Manpower Education, loss Fubic health Service for the purpose of conducting a Gurvey of health Profession Student Financing.

I would like to encourage your contention in this very injuritant undertaking. The information gained from this suryear will great a solish the podiatry profession in relating the financial needs for students of podiatric medicine to federal, state, and local agencies.

I straig you as a great absentation on this important study.

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AMBRICAN VETERINARY MEDICAL ANSOCIATION

Beat Student;

On behalf of the American Veterirars Medical Association,
I would like to incoverage your cooperation in the Survey of
Health Profession Student Financing. As Dr. Endicatt's letter
constitutes, the information gained from this survey will have
important implications for policy in financial assistance to
students in the health professions. We hope you will give
cont full cooperation in this important study.

Sincerely,

M. R. Clarkson, I.V.N.
Executive Vive President

DHEW Publication No. 75-13

US DEPARTMENT OF HEALTH EDIX ATION AND WELFARE
PUBLIC HEALTH SERVICE
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